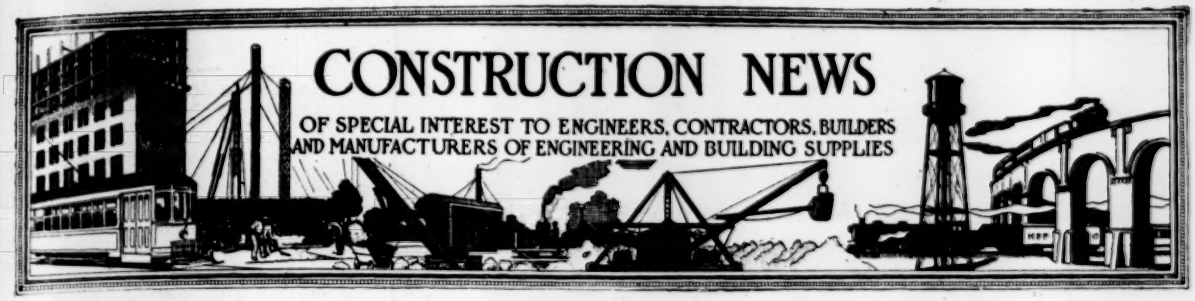
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Few Changes in Price List as Government Control Is Lifted

Some Items Are Lower; Others Have Advanced, Showing No Indication of Predicted General Decline

The end of the War Industries Board Dec. 31 brought few actual changes in the price list. The few declines that have occurred, including those in pig iron, steel, black and galvanized sheets, manila rope, etc., are offset by one or two slight advances—so the changes, as yet, do not indicate any general tendency. Conditions throughout the country point to lower figures, the stopping of night, Sunday, and other overtime work, and the absence of the pressure from the Government indicating that the mills are catching up on orders. Since a large amount of goods manufactured for war purposes has peace-time utility, and since the plants producing them are anxious for a market, more intense advertising and more attractive prices will result to stimulate demand.

The Department of Labor at Washington reports that at the present rate of labor flow from war organizations the supply will very shortly exceed the demand. But a sharp break in the price of both materials and labor is improbable, because of the large potential demand that exists, as well as the pressure from certain quarters for prompt work on public utilities, railroads, highways, bridges, etc., that has been seriously held up.

Potential Demand Will Influence Situation

The evidence of potential demand for building work alone is shown in the marked falling off of building permits issued in a number of the largest cities in the United States. For the month of November, in five years preceding 1916, the value of the permits varied from $22,000,000 to $43,000,000. In 1916 it rose to $45,000,000, in 1917 it fell to $25,000,000, and for 1918 is reported to be but $8,000,000. Since the signing of the armistice, reports to the Construction News Department of *Engineering News-Record* of bids desired and contracts let have been fewer than in many months since.

A nation-wide investigation by several important agencies is on foot to determine the amount of public and private construction that is immediately available, and the efforts are directed toward having the information ready for the public as soon as possible. As noted elsewhere in this issue, the Department of Labor at Washington is beginning an extensive campaign to start as large an amount of construction, both public and private, as possible.

Many of the industries, fearing the effect on prices by a general unloading of the stock held by the Government, have offered to take over the stocks and dispose of them through their sales organizations. Stability of prices is highly necessary for the best business conditions, and the nearest approach possible to that condition in a transition period is to have the changes made as smoothly as possible. The building trades are working on the problem, and many meetings have been held throughout the country in the past month to seek a proper solution of the problem.

The steel industry had its quarterly meeting with the War Industries Board during the month, and proposed that the board continue to fix prices, offering a list of reductions on the several products of the industry. The board, however, declined to continue the price-fixing policy.

Bankers, in discussing this proposal, say that the price-fixing suggested would be in effect the fixing of minimum prices, whereas the War Industries Board was established to fix maximum prices. The fixing of minimum prices would, in effect, be a complete reversal of the policy that has been in effect, in that during the war a maximum production was necessary with a minimum of consumption, whereas the situation now demands a maximum consumption with less production.

Plate Mills Stopping Night Work

Plate mills are discontinuing their night work, thus releasing a number of workers, although some large orders for immediate shipment are reported. Shipbuilding is the stabilizer for this industry both in material and labor, so it is not considered probable that there will be immediate difficulties. The expected drop of about 25c. has appeared. The price of sheets has already dropped, and the removal of the Government demand is making it possible for the mills to catch up and make good deliveries. Manila rope is another item in which a reduction is noted, the fall amounting to 13c. in New York and averaging 10c. throughout the country. This is due, however, not so much to a reduction in the demand as to the removal of certain insurance requirements of the Federal Government, making a lower overhead in production costs. The reduction of $3 in pig iron was made in spite of the fact that a large order from England was recently placed at the existing high prices. The announcement has been made that warehouse prices on bars and structural shapes will decline.

Copper has declined from 26c., the price fixed by the Government, to 23c. and a much greater decline is predicted. On Dec. 1 it was estimated that American producers had about 800,000,000 lb. of crude copper in stock and in transit, and this quantity was undoubtedly increased during the month. A price of 20c. has been quoted in England and there are large stocks abroad, making it evident that a still further decline will occur.

A drop in explosives has been reported. At first this seems to be a logical result of the end of the war, but an investigation shows that there has been no advance in explosives during the whole war, the leading explosive manufacturers stating that, by improving processes and producing by-products from what would ordinarily be waste, price stability in that commodity has been made possible.

Congress is taking action to make possible the payment on oral war contracts. The Comptroller of the Treasury ruled that since the armistice was signed it was impossible to substitute formal contracts for the oral contracts. It is estimated that these informal contracts amount to almost $1,700,000,000, representing an amount of tied-up capital that will be a serious factor in the reconstruction problem if it is not released quickly.

Cancellation of Construction Contracts by War Department

Engineering News-Record has on hand a complete list of cancellations by the War Department of construction contracts. The list contains 262 items of contracts in all parts of the country, and gives the name and location of the contract and in a few words states the character of the work covered. This information is available for consultation in the New York office of this journal.

Price advances are indicated by **heavy type**; declines by *italics*

NOTE—On Jan. 7, steel prices, both mill and warehouse, will decline—20c. per hundred on bars and structurals, 25c. on plates.

PIG IRON—Quotations compiled by The Matthew Addy Co.:

	Current	One Month Ago
CINCINNATI		
No. 2 Southern	$37 60	$37 60
Northern Basic	34 80	34 80
Southern Ohio No. 2	35 80	35 80
NEW YORK, Tidewater delivery		
Penna. 2X	39 55	39 55
Virginia No. 2	41 70	41 70
Southern No. 2	41 70	41 70
BIRMINGHAM		
No. 2 Foundry	34 00	34 00
PHILADELPHIA		
Eastern Pa. 2X	39 15*	39 15*
Virginia No. 2	40 50†	40 50†
Basic	36 90*	36 90*
Grey Forge	36 90*	36 90*
Bessemer	39 10*	39 10*
CHICAGO		
No. 2 Foundry Local	34 50	34 50
No. 2 Foundry Southern	39 00	39 00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	35 40	35 40
Basic	34 40	34 40
Bessemer	36 60	36 60

* F.o.b. furnace. † Delivered

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$55 00	$38 00	$65 00	$38 00
Standard openhearth rails	57 00	40 00	67 00	40 00
Light rails, 8 to 10 lb.	3 13½	43 50	3 13½	43 50
Light rails, 12 to 14 lb.	3 09	39 00	3 09	39 00
Light rails, 25 to 45 lb.	3 00	30 00	3 00	30 00

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots together with the warehouse prices at the places named:

	Pittsburgh Current	Pittsburgh One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, ⅜-in. and larger	$3.70	$3.90	$4.50	$5.30	$6.15
Track bolts	4 90	4 90	5 50	Premium	7 50
Standard section angle bars			4 45	Premium	5 15

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8 Ft.
Chicago	Plain	1 48	1 33
San Francisco	Douglas Fir—Green	1 35	96
San Francisco	Douglas Fir—Creosoted	2 75	1 92

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0 70	No. 1	$0 55
No. 2	80	No. 2	65
No. 3	90	No. 3	75
No. 4	98		
7x9x8 white oak			1 05
7x9x8 red oak (No. 4) $0.80		No. 5	87

Note:—Add 36c. each for treatment

PIPE

STEEL AND IRON PIPE—The following discounts are for carload lots f.o.b. Pittsburgh, basing card of Jan. 1 for steel pipe and iron pipe:

Inches	Steel Black Per Cent.	Steel Galvanized Per Cent.	Inches	Iron Black Per Cent.	Iron Galvanized Per Cent.
	BUTT WELD				
¼ to 3	54	40½	⅛ to 1½	36	20
	LAP WELD				
2	47	34½	1¼	21	6
2½ to 6	50	37½	1½	28	14
7 to 12	47	33½	2	29	15
13 and 14	37½	...	2½ to 6	31	18
15	35	...	7 to 12	28	15
	BUTT WELD, EXTRA STRONG PLAIN ENDS				
¼ to 1½	52	39½	⅛ to 1½	36	21
2 to 3	53	40½			
	LAP WELD, EXTRA STRONG PLAIN ENDS				
2	45	33½	1¼	22	7
2½ to 4	48	36½	1½	28	14
4½ to 6	47	35½	2	30	17
7 to 8	43	29½	2½ to 4	32	20
9 to 12	38	24½	4½ to 6	31	19
			7 to 8	23	1'
			9 to 12	18	6

From warehouses at the places named the following discounts hold for steel pipe:

	Black New York	Black Chicago	Black St. Louis
⅛ to 3 in. butt welded	40%	41.1%	40%
3½ to 6 in. lap welded	36%	37.1%	36%
	Galvanized New York	Galvanized Chicago	Galvanized St. Louis
⅛ to 3 in. butt welded	28%	26.1%	27%
3½ to 6 in. lap welded	25%	23.1%	24%

Malleable fittings, Class B and C, from New York stock sell at +15% list prices. Cast iron, standard sizes, 5% off.

Note—There is an additional charge of 5% for cartage.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York One Month Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4 in.	$70.70*	$70.70	$58.35	$69 80	$63 00	$85 [illegible]
6 in. and over	67.70*	67.70	55.35	66.80	60 00	82 50

Gas pipe and 16-ft. lengths are $1 per ton extra.

* Reduction, probably $3, expected at once.

CLAY DRAIN TILE—The following prices are per 1000 lin. ft.:

Size, In.	New York Current	New York One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$35.00	$22 50	$30 00		
4	51.00	50.00	27 00	40 00		$45 00
5	65 00	65.00	45 00	50 00		65 00
6	90 00	90.00	55 00	60 00		90 00
8	130 00	130.00	100 00	80 00		150 00

SEWER PIPE—The following prices are in cents per foot for carload lots:

Size, In.	New York Current	New York One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$0.117	$0.096		$0 125	$0 09	$0 138
4	.117	096		125	15	138
5	.1755	144		175	1875	207
6	.1755	144	$0 16	175	225	207
8	.273	224	22	25	3475	2875
10	.4095	336	30	375	45	4025
12	.5265	432	43	475	60	5175
15	.702	576	65	63	9375	78
18	.975	80	96	1 00	1 275	1 02
20	1.17	96	1.14	1 20	1 71	1 20
22	1.56	1 28	1 46	1 60		1 56
24	1.755	1 44	1 64	1 80	2 125	1 80
27	2 60	2 145	2 00	2 75		2 70
30	2 88	2 376	2 70	3 45		3 30
33	3 78	3 15	3 25	4 00		4 20
36	4 305	3 5875	3 55	4 35		4 80

	3	5	8	12	24	36
Boston	$0 12	$0 18	$0 28	$0 54	$1 80	$6 75
St. Paul	.12	18	.25	45	4 00	4 75
Seattle	.15		.33½	64	2 00	
Kansas City	12	18	.25	50	1 80	4 60
Los Angeles	085	13½	24½	44	1 50	
New Orleans	*108*	135	.27	459	1 75½	
Cincinnati	.108	.162	.252	486	1 665	3 99½

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Year Ago
St. Louis, 35% asphalt	$0 09	$0 06½
Chicago, 15-20% asphalt	10	06½
Chicago, 100% dust layer	11	08½
Dallas, 40-50% asphalt	09	07
Dallas, 60-70% asphalt	10	08
Dallas, 75-90% asphalt	11	09
San Francisco, 75-95% asphalt	2 15	1 90

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
Chicago	Mexican	$35 50	$33 00
San Francisco	California	17 00	13 50
Dallas	Texaco and Mexican	32 00	30 00
Seattle	D grade	23 10	
Denver	Trinidad	59 00	
Denver	California	39 00	
St. Louis	Stanolind	25 40	22 90
New Orleans	Mexican	*26 00*	*20.00*

PAVING STONE—

New York	Manhattan	$2 80 sq yd.
	Other boroughs	2 80 sq yd.
New York	5-in. granite	2 80 sq yd.
Chicago	About 4x8x4 dressed	2 70 sq yd.
	About 4x8x4 common	2 35 sq yd.
San Francisco	Basalt block 4x7x8	57 75 per M
Kansas City	Limestone	2 75 sq yd.
Boston	5-in. granite	89 00 per M
St. Paul	Sandstone	1 75 sq yd.

FLAGGING—

New York	Bronx	$0 20 sq ft.
	Manhattan	21 sq ft.
	Queens, 5 ft. square	20 sq ft.
	5x20-in. cross-walk	70 lin. ft.
Chicago	18 in. wide	80 lin. ft.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq. Yd.
New York	3½	16	$3 25
New York	4	16	3 50
Chicago	4	16	3 10
Chicago	3½	16	2 95
Chicago	City specifications		3 10
St. Louis	3½	16	2 45
St. Louis	4	16	2 60
St. Louis, Minneapolis spec.	3½		2 40
St. Louis, Minneapolis spec.	4		2 55
Seattle	4	16	2 55
St. Paul	Minneapolis specifications		2 50
Dallas	3½	18	3.17
Dallas	4	18	3.56

CURBING—Prices per linear foot are as follows:

New York	5 x 16	$0 45
	5 x 20	55
Chicago	6 x 18	95
St. Louis	5 x 16 square edge	92
St. Louis	5 x 16 bull nose	97
San Francisco	5 x 16	65
	5 x 20	80
Dallas	6 x 20	45

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yo.:

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2 00	$1 40	$2 00	$1 50	$1 25	$0 50
Denver	*1 55*	1 45	1 55	1 45	1 10	1 00
Chicago	2 00	1 40		1 40	*1 10*	1 40
Kansas City	2 15	2 15	2 60	2 60	1 00†	60
St. Louis*	1 76	1 11	1 82	1 11	1 68‡	1 11
Seattle	1 25	80	1 25	80	1 25	80
Dallas	2 00	1 50	2 00	1 50	1 35	1 35
St. Paul	1 25	1 00	*1 45*	1 40	60	50
San Francisco	1 20	1 00	1 20	1 00	1 20	1 00
Boston	2 75	1 50	2 75	1 60	1 25	90
New Orleans	2 82	1 95		1 95	1 88	1 95
Cincinnati	1 35‡	1 56		1 65‡	1 35‡	1 65
Los Angeles	*1 25*		1 40		1 10	

*Fine white sand, Pacific and Ottawa per ton, $6. †Kaw River sand is $1 50 per yd. ‡Per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1 70	$1 30	$1 85	$1 40
Chicago	1 60	1 40	1 70	1 40
St. Louis	1 25	1 35	1 25	1 35
Dallas	2 05	1 39	2 05	1 46
San Francisco	1 20	1 00	1 20	1 00
Boston	*1 75*	1 50	*1 75*	1 60
St. Paul	1 15	1 00	*1 25*	1 10
Denver		1 45	1 55	1 50
Kansas City	1 70	1 60	1 80	1 70
Seattle	1 50	1 10	1 50	
Cincinnati	1 50	1 75		1 75
Los Angeles	1 50		1 60	

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$17 50	$14 50	$2 90	$2 65
Chicago	18 00	17 50	1 80*	1 10*
St. Louis	22 00	16 00		1 75
Boston	22 20	18 20	3 65	3 35
Dallas	16 50			2 50
San Francisco	20 00			2 15
St. Paul	25 00	19 00	1 97*	1 93*
New Orleans	19 74	16 45	19 74‡	19 27‡
Cincinnati	14 20	11 95		
Denver		26 25‡		2 50*
Los Angeles				? 50*

* 200-lb. barrels. ‡ Per ton

NOTE—Refund of 10c. per bag, amounting to $2 per ton; barrel refund is 10c.

NATURAL CEMENT — Price to dealers for 500 bbl. or over, f.o.b., including bags:

Cincinnati (Utica)	$1 80
St. Paul (Austin)	1 93
Boston (Rosendale)	1 65
Kansas City (Ft. Scott)	1 70
New Orleans	3 52

Return of from 9c. to 10c. allowed per bag.

PORTLAND CEMENT—These prices are for barrels in carload lots, including bags, to contractors:

	Current	One Month Ago	One Year Ago
New York	$4 00	$4 00	$2 22
Jersey City	3 64	3 64	2 16
Boston	3 67	3 67	2 37
Chicago	3 05	3 05	2 21
Pittsburgh	3 15	3 15	2 31
Cleveland	3 32	3 32	2 44
Detroit	3 28	3 28	2 40
Indianapolis	3 22	3 22	2 38
Toledo	3 22	3 22	2 40
Milwaukee	3 16	3 16	2 33
Duluth	3 20	3 20	2 51
Peoria	3 16	3 16	2 33
Cedar Rapids	3 28	3 28	2 48
Davenport	3 24	3 24	2 40
St. Louis	3 30	3 30	2 45
San Francisco	3 48	3 48	2 30
New Orleans	3 77	3 77	3 00
St. Paul	3 40	3 40	2 83
Denver	3 67	3 67	3 10
Kansas City	3 30	3 30	2 34
Seattle	3 33	3 33	2 75
Dallas	2 93	2 93	2 60
Los Angeles	3 68	3 38	
Cincinnati	2 80	2 80	

NOTE—Bag refund is generally 25c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-IN. x 4-IN. MESH

Style Number	Sectional Area Square Inches per Ft.	Width	Pittsburgh	New York	Chicago	St. Louis	Dallas	San Francisco
032	0 032		$0 96	$1 09	$1 02	$1 03	$1 13	$1 47
049	0 049		1 22	1 40	1 30	1 32	1 43	1 87
068	0 068		1 52	1 73	1 62	1 64	1 79	2 33
093	0 093		1 96	2 23	2 09	2 11	2 41	3 01
126	0 126		2 48	2 82	2 63	2 67	2 92	3 80
153	0 153		2 96	3 38	3 15	3 19	3 48	4 54
180	0 180		3 39	3 85	3 60	3 66	3 99	
245	0 245		4 48	5 10	4 75	4 83	5 27	
287	0 287		5 18	5 90	5 50	5 58	6 10	7 95
336	0 336		6 00	6 83	6 37	6 47	7 06	
395	0 395		6 96	7 89	7 40	7 50	8 19	

LAWN

036	0 036	$0 74	$0 84	$0 84	$0 80	$0 80
053	0 053	1 04	1 25	1 25	1 12	1 12
072	0 072	1 35	1 58	1 53	1 46	1 46
097	0 097	1 74	1 98	1 98	1 88	1 88
049	0 049	1 04	1 25	1 25	1 12	1 12
067	0 067	1 35	1 53	1 53	1 46	1 46
089	0 089	1 80	1 98	1 98	1 88	1 88

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$34 07	$31 00	$31 00	$34 00	$38 00	$33 33
26	250	35 23	32 05	32 00	35 00	40 00	34 33
25	300	36 51	33 15	33 25		42 50	35 33
24	340	37 73	34 25	34 50	37 00		37 50
22	450	40 48	36 45				

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING — The following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	New York One Year Ago	Chicago	St. Louis	Dallas	San Francisco
½ and larger	$2 90	$4 17	$4 09½	$4 17	$4 17	$4 90	$5 15
⅝	2 95	4 23	4 14½	4 22	4 22	4 95	5 20
¾	3 00	4 27	4 19½	4 27	4 27	5 00	5 25
⅞	3 15	4 42	4 34½	4 42	4 42	5 15	5 40
1	3 40	4 67	4 59½	4 67	4 65	6 15	5 65

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$3 07	$3 00	$4 90	⅝	$3 32	$3 25	$5 15
⅝	3 12	3 05	4 95	¾	3 57	3 50	6 15
¾	3 17	3 10	5 00				

BRICK—To contractors the price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$14 00	$14 00	$8 75	No Quotations	
Chicago	11 00	11 00	8 00		$27 50
St. Louis, selected	18 00	18 00	11 00	$28 00	
St. Louis, salmon	12 00*	12 00	8 00		
Denver	12 00	12 00	8 50		
Dallas	*16 07*	16 30	10 50	*26 20*	
San Francisco	12 00	12 00	10 00		
Boston	*16–53–17*	18 00	13 25	*28 00*	
New Orleans	15 98	15 98	9 50		
St. Paul	10 25	10 25	8 70	30 00	37 50
Kansas City	13 00	13 00	11 00	40 00	
Seattle	15 00	15 00	10 00		40 00
Cincinnati	16 50–17	16 50	13 50		
Los Angeles	14 00	10 00			

* Hard brick, $16.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	$0 11925	$0 095	$0 07	$0 08	$0 1125	$0 *1005*	
6x12x12	159	133	095	105	15	*106*	$0 1512
8x12x12		1615	12	15		*201*	1944
10x12x12		190	14	173		300	2263
12x12x12		2375	195	208		325	2916

	4x12x12	8x12x12	12x12x12
St. Paul	$0 056	$0 11	$0 162
Cincinnati	086	165	218
Seattle	09	175	30
Los Angeles*	079	144	*181*
New Orleans	14	20	

* F.o.b. factory, 4, 8 and 10 inch.

STRUCTURAL MATERIAL—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco	Dallas
Beams, 3 to 15 in.	$3 00	$4 27	$4 19½	$4 27	$4 27	$5 25	$5 05
Channels, 3 to 15 in.	3 00	4 27	4 19½	4 27	4 27	5 25	5 05
Angles, 3 to 6 in., ¼ in. thick	3 00	4 27	4 19½	4 27	4 27	5 25	5 05
Tees, 3 in. and larger	3 00	4 27	4 19½	4 27	4 27	5 25	5 05
Plates	3 25	4 52	4 44½	4 52	4 52	5 50	5 28

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Chicago	St. Louis	San Francisco	Dallas
½ in. and larger	$4 65	$5 675	$7 00	$5 57	$5 55	$6 70	$7 90

CONE HEAD BOILER

½ in. and larger	4 75	5 775	7 10	5 67	5 65	8 80	7 10
⅝ and ¾	4 90	5 925	7 25	5 82	5 80	6 95	7 25
⅞ and 1	5 25	6 275	7 60	6 17	6 05	7 30	7 60

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	*$1.35*	*$1.60*	*$1.70*	*$1.95*	$2.05	*$2.30*
No. 2 grade	*1.20*	*1.45*	*1.50*	*1.75*	*1.80*	*2.05*

Asbestos asphalt-saturated felt (14 lb. per square) costs *$5.00* per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs *$2.10* per roll in carload lots and *$2.35 for* smaller quantities.

Shingles, red and green slate finish, cost *$5.50* per square in carloads, *$5.75* in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots		Less Than Carload Lots	
	N. Y.	Chicago	N. Y.	Chicago
Tar felt (14 lb. per square of 100 sq. ft.)	$64.00	$57.00	$65.00	$58.00
Tar pitch (in 400-lb. bbl.)	21.00	18.00	22.00	19.00
Asphalt pitch (in barrels)	36.00	36.00	41.50	41.50
Asphalt felt	67.50	67.50	72.00	72.00

SHEETS—Quotations are in cents per pound in various cities from warehouse, also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	—New York— Current	One Yr. Ago
No. 10	3.90	5.52	5.52	6.55	5.52	5.44½
No. 12	3.95	5.57	5.52	6.60	5.57	5.49½
No. 14	4.00	5.62	5.62	6.70	5.62	5.54½
Black						
Nos. 18 and 20	4.50	6.32	6.32	7.30	6.32	6.24½
Nos. 22 and 24	4.55	6.37	6.37	7.35	6.37	6.29½
No. 26	4.60	6.42	6.42	7.40	6.42	6.43½
No. 28	4.70	6.52	6.52	7.50	6.62	6.53½
Galvanized						
No. 10	5.05	6.97	6.77	....	6.87	6.69½
No. 12	5.15	6.97	6.87	7.85	6.82	6.79½
No. 14	5.15	6.97	6.87	8.00	6.97	6.79½
Nos. 18 and 20	5.45	7.17	7.17	8.15	7.27	7.09½
Nos. 22 and 24	5.60	7.32	7.32	8.30	7.32	7.24½
No. 26	5.75	7.47	7.47	8.45	7.47	7.39½
No. 28	6.05	7.77	7.62	8.75	7.77	7.69½

LINSEED OIL—These prices are per gallon:

	—New York— Current	One Year Ago	—Cleveland— Current	One Year Ago	—Chicago— Current	One Year Ago
Raw in barrel	$1.59	$1.25	$1.90	$1.25	$1.77	$1.22
5-gal. cans	1.84	1.35	2.00	1.40	1.97	1.32

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	—Red— Current		1 Year Ago		—White— Current	1 Yr. Ago
	Dry	In Oil	Dry	In Oil	Dry and In Oil	Dry and In Oil
100-lb. keg	14.00	14.50	12.25	12.50	14.00	12.50
25 and 50-lb. kegs	14.25	14.75	12.50	12.75	14.25	12.25
12½-lb. keg	14.50	15.00	12.75	13.00	14.50	12.50
5-lb. cans	.....	.....	14.25	14.00	16.00	14.50
1-lb. cans	.....	.....	14.25	14.50	17.00	14.50

LUMBER

Pacific Coast—Rough Douglas Fir: F. O. B. mills. Present cargo rate from mills to San Francisco is $7 per M ft.

	8-12-14 and 16 Ft.	9-10-18 and 20 Ft.	22 and 24 Ft.	26 to 32 Ft.
3x3 and 4	$21.00	$21.50	$22.50	$24.50
3x6 and 8	22.00	22.50	23.50	25.50
4x4-6 and 8	22.50	23.50	24.50	26.50
6x6 to 8x8	22.00	23.00	24.00	26.00
3x10 and 12	23.50	24.50	25.50	27.50
3x14	24.00	25.00	26.00	28.00
4x10 and 12	23.50	24.50	25.50	27.50
4x14	24.50	25.50	26.50	28.50

	32-Ft. and Under	34 to 40 Ft.
6x10 to 8x12	$25.00	$27.00
6x14 to 8x14	25.50	27.50
10x10 to 12x12	25.00	27.00
10x14 to 14x14	25.50	27.50

Chicago and St. Louis—Yellow Pine:

	—Chicago— 20 Ft. and Under	22-24 Ft.	—St. Louis— 20 Ft. and Under	22-24 Ft.
3x 4 to 8x 8	$39.00	$41.00	$35.00	$37.00
3x10 to 10x10	42.00	43.50	38.50	40.00
3x12 to 12x12	44.00	45.50	40.00	41.50
3x14 to 14x14	48.50	50.00	45.00	47.00
3x16 to 16x16	52.00	53.50	48.00	50.00
3x18 to 18x18	56.00	57.00	52.00	53.50
4x20 to 20x20	62.00	63.00	....	....

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	—8 x 8-In. x 20-Ft. and Under— Y.P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under Y.P.	Fir
Cincinnati	$42.00	....	38.00	41.00	37.00	39.00
Kansas City	39.00	40.50	40.50	38.50	45.50	42.50
Seattle	19.50	19.50	19.50	19.50	19.50	19.50
New Orleans	45.00	....	....	....	50.00	....
St. Paul	....	52.00	48.00	48.00	....	48.50
Denver	43.00	33.50	....	....	48.00	39.00
Los Angeles	*	*	*	*	*	*

	1-In. Rough, 10 In. x 16 Ft. and Under Y.P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. Y.P.	Fir
Cincinnati	....	35.00	....	40.00	39.00
Kansas City	46.00	54.75	54.75	53.50	60.00
Seattle	19.50	19.50	19.50	19.50	19.50
New Orleans	52.00	....	....	60.00	....
St. Paul	62.50	48.00	43.00	....	48.50
Denver	43.25	32.50	32.50	35.00	31.00
Los Angeles	39.00	33.00	34.00	*	*

*Los Angeles: Base price of fir is $32; of hemlock, $34; redwood, $35.

Dallas—Yellow Pine:

2x4 to 2x12—12, 14 and 16	$38.40
2x4 to 2x12—10, 18 and 20	41.00
2x4 to 2x12—22 and 24	43.00
4x4, 4x6, 6x6, 8x8 and 3x8	46.25
1x10, 10x10 and 3x10	54.00
8?x12 and 3x12	56.00

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.50	$4.37	$4.37	$4.35	$4.25
Cut	5.00	6.50	6.50	5.75	....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.35½
Buffalo	.17	New York	.22
Chicago	.27	Pacific Coast (all rail)	1.27*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59		

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. bbl.	$0.04½	None
Hypochlorite of lime (bleaching powder), in 700-lb. drums	.03	0.04½
Soda ash, in 400-lb. bbl.	.03	.03½
Liquid chlorine in 100-lb. cylinders Lime is quoted separately	.16	.16

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$4 to $5	$4 to $5	$4 to 5

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+17½%
Galvanized cast steel rigging	2½%
Bright plow steel	30%
Bright cast steel	17½%
Bright iron and iron tiller	List

San Francisco: Galvanized, +5%; bright, 12½% off.
Chicago: Galv., +20%; bright, 20% off.

MANILA ROPE—For rope smaller than ½-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft.; ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; 1-in., 2 ft. 4 in. Following is price per pound for ½-in. and larger, in 1200-ft. coils:

Boston	$0.25	Denver	$0.26
New York	.23	Kansas City	.24½
Cincinnati	.23½	New Orleans	.24
Chicago	.21½	Los Angeles	.24
St. Paul	.24	Seattle	.24
San Francisco	.22	St. Louis	.24½

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	—Gelatin— 40%	60%	80%	Black Powder
New York	....	$0.29½	$0.34½	....	$2.40
Boston	$0.23½	.26½	.31½	$0.35½	2.35
Cincinnati	.18½	.22½	.26½	....	2.35
Kansas City	.20½	.25½	.30½	.38½	2.45
New Orleans	.20½	.24½	.28½	....	....
Seattle	....	.25½	.32½	....	....
Chicago	.18½	.22½	.30	.36	2.35
St. Paul	.19	.24½	.30½	....	2.45
St. Louis	.19	.25½	.30½	.36½	....
Denver	.17½	.24	.29	.35	2.60
Dallas	.21	.25	.29	.39	....
Los Angeles	.23	.29	.37	....	3.10

POLES—Price of Western red cedar poles is as follows:

	—New York— Current	One Year Ago	Chicago	St. Louis	Denver
6-in. x 30-ft.	$5.82	$5.66	$5.17	$4.55	$5.17
7-in. x 30-ft.	7.65	7.45	6.85	6.10	6.85
7-in. x 35-ft.	11.10	10.80	10.00	8.95	10.00
8-in. x 30-ft.	12.65	12.30	11.35	10.10	11.35
7-in. x 40-ft.	12.85	12.50	11.50	10.20	11.50
8-in. x 45-ft.	18.90	18.40	16.90	15.00	16.90
8-in. x 50-ft.	22.65	22.05	20.30	18.00	20.30

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$9.00
12-in. butts, 6-in. tops, length 30-40 ft.	11.50
12-in. butts, 6-in. tops, length 41-50 ft.	12.50
14-in. butts, 6-in. tops, length 51-60 ft.	21.00
14-in. butts, 6-in. tops, length 61-71 ft.	23.50

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	Chicago	St. Louis
No. 1 railroad wrought	$28.30	$28.00	$33.00
Stove plate	20.21	21.00	25.50
No. 1 machinery cast	29.30	27.00	20.50
Machine shop turnings	13.14	13.00	18.50
Cast borings	13.14	14.00	18.50
Railroad malleable cast	24.25	26.00	32.00

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco Galv.	Black	Seattle Black
½	$10.75	$8.50	$8.55
⅝	10.05	7.80	8.25
¾	9.90	7.65	8.30

Pittsburgh base, $5.05 per 100 lb.

PROPOSALS

For Proposals Advertised See Pages 83-85 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Jan. 7	Inverness, Miss.	Dec. 19
Jan. 7	Hallock, Minn.	Jan. 2
Jan. 8	Geneva, Neb.	Jan. 2
Jan. 10	Jacksonville, Fla.	Jan. 2
Jan. 10	Houston, Tex.	Dec. 12
Jan. 15	Kansas City, Mo.	Jan. 2
Jan. 31	Poteau, Okla.	Dec. 26
	Adv. Dec. 19 and 26.	

SEWERS

Jan. 3	Philadelphia, Pa.	Jan. 2
Jan. 9.	Globe, Ariz.	Dec. 30
	Adv. Dec. 19 and 26.	

BRIDGES

Jan. 6	Tulsa, Okla.	Dec. 12
	Adv. Dec. 12, 19, 26, and	Jan. 2
Jan. 6	Cleveland, Miss.	Jan. 2
Jan. 10	Little Rock, Ark.	Dec. 26
Jan. 22	Ft. Smith, Ark.	Jan. 2
Feb. 3	Charlotte Harbor, Fla.	Jan. 2

STREETS AND ROADS

Jan. 4	Johnstown, Pa.	Dec. 19
Jan. 5	Tallahasse, Fla.	Jan. 2
Jan. 6	Mangum, Okla.	Dec. 19
Jan. 6	Tulsa, Okla.	Dec. 12
	Adv. Dec. 12, 19, 26, and	Jan. 2
Jan. 6	Seattle, Wash.	Dec. 26
Jan. 6	Holbrook, Ariz.	Dec. 26
Jan. 8	Riverside, Cal.	Dec. 26
Jan. 9	Glendale, Cal.	Jan. 2
Jan. 14	Bay City, Tex.	Dec. 26
Jan. 15	Blytheville, Ark.	Dec. 5
Jan. 20	Oswego, Kan.	Jan. 2
Jan. 24	Topeka, Kan.	Jan. 2

EXCAVATION AND DREDGING

Jan. 7	Albany, N. Y.	Dec. 12
	Adv. Dec. 12, 19, 26, and	Jan. 2
Jan. 9	Bridge Junction, Ark.	Dec. 12
Jan. 11	Greenfield, Ind.	Dec. 26
Jan. 11	Blythe, Cal.	Jan. 2
Jan. 14	Albany, N. Y.	Dec. 26
	Adv. Dec. 19, 26, and	Jan. 2
Jan. 15	New Ulm, Minn.	Dec. 26
Jan. 15	York, S. C.	Dec. 26
Feb. 3	Madisonville, Ky.	Dec. 12
	Adv. Dec. 5, 12 and 19.	

BUILDINGS

Jan. 4	Brooklyn, N. Y.	Jan. 2
Jan. 6	Brooklyn, N. Y.	Jan. 2
Jan. 6	Lyons, Ga.	Dec. 26
Jan. 9	Detroit, Mich.	Dec. 26
Jan. 11	College Station, Tex.	Jan. 2
Jan. 14	Cherokee, Ia.	Dec. 19
Jan. 30	Phoenix, Ariz.	Jan. 2
Feb. 1	St. Paul, Minn.	Oct. 31
Mar. 15	Culver, Ind.	Dec. 26

FEDERAL GOVERNMENT WORK

Jan. 3	Post Office—Newburyport, Mass.	Dec. 5
Jan. 6	Post Office — Lancaster, S. C.	Dec. 5
Jan. 6	Post Office—Caribou, Me.	Dec. 5
Jan. 6	Hangars, Pavement and Beach — Spec. 3432 — Galveston, Tex.	Dec. 19
Jan. 6	Railroad — Spec. 3718 — Bellevue, D. C.	Dec. 19
Jan. 6	Railroad Track—Spec. 3265 —Hingham, Mass.	Dec. 19
Jan. 6	Kitchen and Diet Equipment—Spec. 3622—Norfolk, Va.	Jan. 2
Jan. 6	Completion of Building — Spec. 3479 — New London, Conn.	Jan. 2
Jan. 6	Administration Building — Spec. 3608 — Yorktown, Va.	Jan. 2
Jan. 6	Houses — Spec. 3696 — Indianhead, Md.	Jan. 2

Bids Close		See Eng. News-Record
Jan. 6	Wells and Pumps — Spec. 3577 — North Ft. Worth, Tex.	Jan. 2
Jan. 7	Bridge—Washington, D. C.	Jan. 2
Jan. 7	Post Office — Woodbury, N. J.	Dec. 5
Jan. 7	Post Office—Fremont, O.	Dec. 5
Jan. 7	Altering Post Office—Canton, O.	Dec. 26
Jan. 7	Post Office and Court House —Alexandria, La.	Dec. 5
Jan. 8	Post Office—Prescott, Ark.	Dec. 5
Jan. 8	Post Office—Cody, Wyo.	Dec. 5
Jan. 8	Post Office — Waterloo, N. Y.	Dec. 5
Jan. 8	Power House, Etc. — Spec. 3741—Mare Island (Vallejo P. O.), Cal.	Jan. 2
Jan. 9	Post Office—Orange, Tex.	Dec. 5
Jan. 9	Post Office — State College, Pa.	Dec. 5
Jan. 9	Post Office and Court House —Durango, Colo.	Dec. 5
Jan. 10	Post Office — Front Royal, Va.	Dec. 5
Jan. 10	Post Office—Vineland, N. J.	Dec. 5
Jan. 10	Altering Lobby—New York, N. Y.—Adv. Dec. 19 and 26.	Dec. 26
Jan. 13	Additional Buildings—Spec. 3611—San Diego, Cal.	Dec. 19
Jan. 13	Post Office—West Point, Ga.	Dec. 5
Jan. 13	Post Office and Custom House—Ft. Fairfield, Me.	Dec. 5
Jan. 13	Post Office and Court House —Globe, Ariz.	Dec. 5
Jan. 13	Altering Post Office and Custom House—Petersburg, Va.	Jan. 2
Jan. 14	Hygienic Laboratory — Washington, D. C.	Jan. 2
Jan. 14	Post Office — Southbridge, Mass.	Dec. 5
Jan. 14	Post Office—Cherokee, Ia.	Dec. 5
Jan. 14	Post Office—McKees Rocks, Pa.	Dec. 5
Jan. 15	Altering Post Office—Portsmouth, Va.	Dec. 26
Jan. 15	Post Office — Long Island City, N. Y.	Dec. 5
Jan. 15	Post Office—Kenton, O.	Dec. 5
Jan. 15	Post Office — Bellefourche, S. D.	Dec. 5
Jan. 15	Post Office — Winchester, Mass.	Dec. 5
Jan. 16.	Post Office—Eldorado, Kan.	Dec. 5
Jan. 16	Post Office—Shawnee, Okla.	Dec. 5
Jan. 17	Post Office—Franklin, Pa.	Dec. 5
Jan. 17	Post Office—Cohoes, N. Y.	Dec. 5
Jan. 17	Post Office—Buffalo, Wyo.	Dec. 5
Jan. 20	Post Office — Harrisonville, Mo.	Dec. 5
Jan. 20	Post Office—Owego, N. Y.	Dec. 5
Jan. 20	Post Office—Sunbury, Pa.	Dec. 5
Jan. 20	Post Office—Decatur, Ala.	Dec. 5
Jan. 20	Post Office — Shelbyville, Ind.	Dec. 26
Jan. 23	Post Office—Salem, Va.	Jan. 2
Jan. 23	Post Office — Russellville, Ark. Adv. Jan. 2	Jan. 2
	Adv.	Jan. 2
Jan. 28	Dredging—Key West, Fla.	

MISCELLANEOUS

Jan. 9	Structural Steel — New York, N. Y.	Jan. 2
Jan. 24	Sheet Steel Rivets—Los Angeles, Cal.	Jan. 2
Feb. 19	Gantry Crane — Seattle, Wash. Adv. Jan. 2	Jan. 2

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Lockport—City retained Hill & Ferguson, engrs., 100 William St., New York City, to make general survey, reports, etc., for improving water-works system.

Fla., Sarasota—See "Sewers."

Mich., Saginaw—R. F. Johnson, comr. light, water and sewers, soon receives bids installing auxiliary pumping unit in West Side pumping station; also laying water mains in Porter St. from Bristol St. north, and in Niagara St. from Court to Mackinaw Sts. About $25,000. Part of work will be done by day labor. H. H. Eymer, City Hall, engr. Noted Dec. 5.

Ill., Witt—City had plans prepared for distribution system. About $80,000. Miller & Holbrook, 418 Milliken Bldg., Decatur, engrs.

Ia., Clarinda—City having plans prepared extending and improving water-works system. Work involves intake pumps, rapid filter, high filter, high pressure pumps and pipe line. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Dec. 19.

Kan., Parsons—Missouri, Kansas & Texas R.R. had plans prepared for building filtration plant in yards near station. J. J. Johntz, Parsons, engr.

S. D., Mitchell—City receives bids in January improving water-works system. About $100,000. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Sept. 26.

Mont., Whitefish—City election Jan. 6 to vote on $20,000 bonds to build water-works system.

Tex., Dallas—City plans election in April to vote on $3,000,000 bonds to build reservoir. G. D. Fairtrace, city engr.

Okla., Ada—City election Jan. 20, to vote on $85,000 bonds to extend water-works. Benham Eng. Co., 1300 Colcord Bldg., Oklahoma, engrs. Noted Dec. 19.

Utah, Tremonton—City voted $50,000 bonds to build and extend pipe line from springs to present diversion system.

Ariz., Prescott—City plans to reconstruct distribution system and build new water system to include storage reservoir, distributing reservoir, canal, headgate and supply pipe line. About $300,000. H. Phillips, International Life Bldg., St. Louis, Mo., consult. engr.

BIDS DESIRED

Fla., Jacksonville—Until Jan. 10, by City Comrs., delivering and erecting complete, 1 surface condensing equipment with auxiliaries and equipment, capacity 120,000 lb. steam per hour in 1 unit, or 2 units 60,000 lb. each per hour. L. E. Murphy, Engineers' Bldg., engr.

Minn., Hallock—Until Jan. 7, by village, building 60,000 gal. steel water tank. F. J. Wickie, clk.

Neb., Geneva—Until Jan. 8, by C. Underwood, city clk., building dug well 10 ft. inside diameter, 82 ft. deep, with two 8 in. wells extending from depth into water bearing stratum 34 ft. deep; centrifugal pump not less than 300 gal. capacity against total head of 210 ft.; electric motor 30 hp., 220 volts, 60 cycle, 3-phase to be direct connected to pump; piping from pump to existing discharge line with branch to water mains. About $6300. Noted Nov. 28.

Mo., Kansas City—Until Jan. 15, by Fire & Water Bd., building 17,000,000 gal. rein.-con. reservoir in North Terrace Park. About $1,250,000 available. Work involves 80,000 cu.yd. earth excav. Noted Nov. 14.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mich., Port Huron—City let contract furnishing and installing two 6,000,000 gal. centrifugal pumps and two 200 h.p. motors at city water-works, to Fairbanks Morse Co., Lafayette Blvd., Detroit. About $10,200. Noted Nov. 21.

★Wyo., Worland—Town Council let contract building and extending water mains, to La Fountain & Alsup, Cheyenne. About $18,044. Work involves 2700 ft. 4-6 in. c.i. pipe, 500 ft. collecting gallery, 600 ft. 12 in. pipe, main portion to be laid under river, 3 fire hydrants, three 4-in. valves with boxes, four 6-in. valves with boxes, manholes and all accessories. Noted Nov. 21.

★Cal., Martinez—City let contract building 1,500,000 gal. rein.-con. reservoir, irregular in shape, part of it in excav., 18 x 24 ft. rein.-con. pump house and 50 ft. steel standpipe, 2 ft. diameter, to M. P. Holmes, Martinez, $31,180; 2 triplex pumps with 270 gal. capacity per min., driven by electric motors, to Fairbanks, Morse & Co., 651 Mission St., San Francisco, $36015.

Sewers

PROPOSED WORK

N. Y., Schenectady—L. E. Sebring, city engr., soon lets contract for 9000 ft. 24 in. tile sewer to be laid in old bed of Erie canal from Washington Ave. to Church St.

Pa., Pittsburgh—City passed ordinance to build 12 and 15 in. terra cotta sewer on Pear Way and Edgebrook Ave. from existing sewer on Pear Way to Saw Mill Run. About $28,000. N. S. Sprague, city engr.

Sewers (Continued)

Fla., Moore Haven—See "Streets & Roads."

Fla., Sarasota—City voted $45,000 bonds for building additions to sewerage and water systems. Noted Dec. 5.

Mich., Detroit—City plans to build trunk line sewers in Linwood and Lonyo Rds., to serve newly annexed territory. About $7,500,000. C. W. Hubbell, city engr.

Ia., Marshalltown—City receives bids in spring building storm sewers in various streets. About $30,000. O. G. Hern, City Hall, engr.

Minn., Morris—City plans to build 6000 ft. 10-15 in. tile sewers in various streets. F. J. Haight, city mgr.

Tex., Laredo—City having plans prepared building sanitary sewerage system. F. A. Jones Eng. & Constr. Co., Interurban Bldg., Dallas, engrs. About $200,000.

Okla., Ada—City election Jan. 29, to vote on $10,000 bonds to extend sewers. Benham Eng. Co., 1300 Colcord Bldg., Oklahoma, engrs.

Ariz., Phœnix—City plans to build drainage system to lower ground water level in city. Work involves 10 mi. various size tile pipe and 150 manholes. About $150,000. H. Phillips, International Life Bldg., St. Louis, Mo., consult. engr.

Wash., Seattle—A. H. Dimock, city engr. submitted plans to Bd. Pub. Wks., laying 6500 ft. sewer pipe in Hinds St. About $28,000.

Ore., Salem—City will spend $15,000 to build sewers. W. S. Kelton, city engr.

Cal., Redwood City—City having plans prepared for enlarging outfall sewer and building septic tank. A. Dimmitt, city engr.

BIDS DESIRED

Pa., Phila.—Until Jan. 3, by Bureau of Charities, building sewerage and drainage systems in buildings "D," "E," "J," "K" and "I" and their connecting corridors for the Philadelphia Institution for Feeble-Mined, Byberry. W. Krusen, dir. P. H. Johnson, 728 Presser Bldg., 1713 Sansome St., archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Brooklyn**—E. Riegelmann,, pres. Brooklyn Boro., let contract repairing sewer in 49th St. from 1st to 2nd Aves., to P. J. Dolan Contg. Co., 82 South 3rd St. About $11,000.

★**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., let contract building combined sewer in Genessee St. from Liberty to North Conduit Aves. and storm sewer in Genessee St. from North Conduit to South Conduit Aves., to J. Ferry & Son, 97 Louisiana Ave., Brooklyn, $363,820. Noted Dec. 19.

★**Mich., Port Huron**—City let contract building 800 ft. sewer and outlet in Merchant and Rawlings Sts. from Pine Grove Park to River at foot of Rawlings St., segmental block sewer, 48 in. diameter, concrete outlet, containing 36 cu.yd. concrete, driving six 14 ft. wooden piles, to J. Kaumeier, Port Huron, $13,500. Work involves 800 ft. 48 in. segmental block and 3800 cu.yd. earth trenching. Noted Dec. 12.

★**Minn., St. Paul**—City let contract to O'Neil & Preston, Cretin and Jefferson Sts., building sewers in Snelling Ave., from point 75 ft. north of Randolph St. to 75 ft. south of Jefferson Ave., cost, $3322; in Page St. from Humboldt Ave. to State St., South Robert St. from Morton St. to Page St. and in Gorman Ave. from Morton to Page St., $6255; in Lafons St. from Lexington Ave. to Griggs St., $3485. Noted Dec. 5.

★**Ont., Ottawa**—City plans to build sewerage system to include 12-36 in. pipe and pumping unit. About $16,000. Work will be done by day labor.

Bridges

PROPOSED WORK

N. J., Trenton—Bd. Freeholders, Mercer Co., plans to build 3 pier rein.-con. bridge, 80 ft. long, 40 ft. wide, over Sanhican Creek. About $20,000. H. Harris, 750 Stuyvesant Ave., engr.

Utah, Bluffdale—Comrs. Salt Lake Co., (Salt Lake City) plan to build rein.-con. bridge and approaches over Jordan River here. About $10,000. R. E. L. Callier, City & County Bldg., Salt Lake City, engr.

Utah, Midvale—Comrs. Salt Lake Co. (Salt Lake City) plan to build rein.-con. bridge and approaches here. About $10,000. R. E. L. Callier, City & County Bldg., Salt Lake City, engr.

Utah, Riverton—Comrs. Salt Lake Co. (Salt Lake City) plan to build rein.-con. bridge over Jordan River here. About $10,000. R. E. L. Callier, City & County Bldg., Salt Lake City, engr.

Ore., Moro—State Highway Comn., Salem, plans to build bridge having two 126 ft. wood deck spans on concrete piers, over John Day River, between Sherman and Gillman Counties. About $20,000. L. W. Metzger, Chamber of Commerce, Salem, engr.

Ore., Moro—State Highway Comn., Salem, plans to build 7 arch rein.-con. bridge, 580 ft. long, over Deschutes River, in Sherman Co. About $75,000. L. W. Metzger, Chamber of Commerce, Salem, engr.

Ore., Oregon City—State Highway Comn., Salem, plans to build bridge over Willamette River, here. About $200,000. L. W. Metzger, Chamber of Commerce Bldg., Salem, engr.

BIDS DESIRED

Fla., Charlotte Harbor—Until Feb. 3, by Comrs. De Soto Co. (Arcadia), building 3000 lin.ft. rein.-con. bridge over Charlotte Harbor in Charlotte Harbor Special Rd. & Bridge Dist. between here and Punta Gorda; also rubbing and finishing 1400 lin.ft. rein. bridge partially constructed, and completing causeway construction; monolithic beam and slab structure on concrete piles. E. V. Camp, Box 421, Atlanta, Ga., engr. Advertised in this issue.

Miss., Cleveland—Until Jan. 6, by Comrs. Bolivar Co., building 3 steel bridges, 2 over Sunflower River and 1 over Bogue Falaya Creek, to be 300-400 ft. long. About $50,000. P. B. Woollard, clk.

Ark., Ft. Smith—Until Jan. 22, by Comrs. Sebastian Bridge Dist., building rein.-con. arch bridge and approaches over Arkansas River at Garrison Ave. About $500,000. Work involves 20,000 cu.yd. concrete, 1,550,000 lb. rein.-steel, 8270 sq.yd. wood block or asphalt pavement, 25,000 lb. miscellaneous metal, 22,000 cu.yd. earth embankment; advertised in this issue. Noted Dec. 5.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Wis., Sheboygan**—Bd. Pub. Wks. let contract completing steel bridge over Sheboygan River on 14th St., consisting of one fixed and one bascule span and necessary piers, abutments and approaches, to Wausau Iron Wks., Wausau. About $62,700. Noted Dec. 19.

Structural Steel

PROPOSED WORK

Ill., Chicago—See "Buildings."

BIDS DESIRED

Miss., Cleveland—See "Bridges."

Reinforced Concrete

PROPOSED WORK

Ill., Chicago—See "Buildings."
Ia., Des Moines—See "Industrial Works."
Utah, Bluffdale—See "Bridges."
Utah, Midvale—See "Bridges."
Utah, Riverton—See "Bridges."

BIDS DESIRED

Fla., Charlotte Harbor—See "Bridges."
Ark., Ft. Smith—See "Bridges."

Streets and Roads

PROPOSED WORK

Pa., Coatesville—City plans to issue $130,000 bonds to improve various streets. W. Harry, city engr.

Pa., Pittsburgh—City Planning Comn. approved plans for widening, grading, paving, repaving, curbing, guttering and improving following streets: Diamond St. from Grant to Smithfield Sts., $415,000; 2nd Ave. from Liberty Ave. to Grant St., $1,400,000; East Ohio St. from Heinz St. to city limits, $500,000; East St. from Tripoli to Royal Sts., North Side, $250,000; Mt. Oliver St. from South 18th St. to point north of Loyal way, South Side, $85,000; East Carson St. from Smithfield St. bridge to South 7th St., $100,000; Brownsville Ave. from Carson St. to Warrington Ave., $250,000; William St. from Brownsville Ave. to Bailey Ave., South Side, $100,000; Boundary St. from Saline St. to Irondale Sts., $11,400; Boulevard between Heths Run bridge and Washington Blvd., also acquisition of property adjacent to Butler St. extension between Heths Run Bridge and Washington Blvd., $230,000; abolishing grade crossing on 2nd Ave. and relocating streets from Greenfield to Hazlewood Aves., $350,000; also building new boulevard to be known as Monongahela Blvd., from Oakland Squirrel Hill to East Liberty, $2,500,000. N. S. Sprague, city engr. Noted Dec. 5

W. Va., Middlebourne—Tyler Co. soon receives bids for 1 mi. standard cement road from here to Salem, 14 ft. wide. About $27,753. G. R. Clarke, co. engr.

W. Va., New Martinsville—Comrs. Wetzel Co. plan election to vote on $500,000 bonds to complete all Class A roads in county. J. R. Wilson, Hundred, engr.

South Carolina—Automobile Assn. presented plan to General Assembly, Columbia, for issuance of $25,000,000 bonds to build 1500 mi. road throughout state.

Ga., Griffin—Comrs. Spalding Co. plan to build 1 mi. concrete road on Dixie Highway, from Griffin city limits to Georgia Experimental Sta.

Ga., Savannah—Chatham Co. plans election to vote on $1,000,000 bonds to build roads in country.

Florida—State Highway Comn., Jacksonville, plans to build roads as follows: Road No. 2—Alachua Co. from Columbia Co. line to Marion Co. line, $40,000; brick road in High Springs Dist., $40,000; east and west highway in Baker Co., $50,000; east and west highway, in Columbia Co., $10,000; Rd. No. 1 and 2, Dade Co., $60,000; brick road from Bermont to Ft. Myers, De Soto Co., $85,000; road in Gadsen Co., $5000; Air Pike Rd., Hernando Co., $32,000; road from Chocktawhatchee River to Walton Co., in Holmes Co., $11,000; road from Tallahassee to Marianna, Jackson Co., $30,000; Dixie Highway, Jefferson Co., $40,000; road from Bristol to Gadsen, Liberty Co., $16,000; Rd. No. 1 east of Madison, Madison Co., $10,000; Milton-Bradentown Rd., brick, Manatee Co., $86,000; road from Jacksonville to Waycross, $50,000; road in Okaloosa Co., $20,000; road from Kissimmee to Loughman, Osceola Co., $120,000; road from St. Cloud to Melbourne, $20,000; road from Frostproof to De Soto Co. line, Polk Co., $30,000; road from San Mateo to Volusia Co. line, Putnam Co., $10,000; road in Santa Rosa Co., $19,999; also bridge from Pensacola to Moline, Escambia Co., $29,000; bridge across Chocktawhatchee River to Walton Co., $30,000.

Fla., Moore Haven—City soon lets contract paving various streets and installing sewers in same. Bonds for $30,000 voted for project. Noted Aug. 1.

Michigan—State Highway Dept., Lansing, plans to build Old Saginaw Turnpike from Clarkston to Flint Rd. About $250,000. F. R. Rogers, chn.

Mich., Pontiac—Oakland Co. plans to build Auburn Ave. Rd. About $200,000. P. M. Law, County Bldg., engr.

Mich., Pontiac—City plans to pave Henry Clay Ave. from Frank Blvd. to Green St. About $11,427. H. H. Barnett, city engr.

Wis., Janesville—Rock. Co. receives bids in spring for 4 mi. concrete road. About $120,000. C. Moore, co. highway comr.

Wis., Sheboygan—City plans to pave 21,500 yd. Georgia Ave. S., from 6th to 17th Sts., and ½ mi. North 10th St., concrete. C. N. Boley, city engr.

Wis., Waukesha—City plans to pave 7 blocks on State St. and College Ave. About $15,000. W. Powrie, city engr.

Minn., Anoka—City receives bids in spring paving 23 blocks. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, consult. engr.

Minn., St. Paul—City rejected bids furnishing material and grading and improving Seminary St. from Lexington Ave. to Chatsworth St. O. Claussen, city engr. Noted Dec. 5.

Kan., Leavenworth—Comrs. Leavenworth Co. receive bids in spring for 29½ mi Fort to Fort Highway, 18 ft. wide, concrete. About $700,000. L. C. Clark, co. engr. Noted Dec. 19.

Mo., Malden—Cotton Hill Twp. voted $75,000 bonds for road improvements. A like sum will be spent by state for road work improvements in this township; 24 mi. hard roads are to be built as soon as money is available.

Streets & Roads (Continued)

Mo., St. Louis—Good Rds. Comn. of Federation of Missouri Commercial Clubs has decided to ask next legislature to authorize $50,000,000 bond issue for improvement of public roads. A. K. Donlin, care of St. Louis Chamber of Commerce, secy.

Tex., Corsicana—State Highway Comn., Austin, appropriated $155,000 to build 42 mi. of Henry Exall Highway, concrete, 16 ft. wide, through Navarro Co. Rd. Comrs. of county have appropriated $130,-600 for same purpose. G. Chappell, co. engr., is preparing plans.

Tex., Houston—Harris Co. soon receives bids improving Main St. to county line. About $60,000.

Tex., Huntsville—Walker Co. having plans prepared for improving roads. About $187,000. Noted Apr. 4.

Utah, Provo—City plans to hard surface ¾ mi. Academy Ave. from Center St. to 3rd St. Bonds for $15,000 voted for project.

Wash., Seattle—City rejected bids received Dec. 14, filling and paving Holgate St., et al. Contract was not awarded as stated in our issue of Dec. 26.

Wash., Seattle—A. H. Dimock, city engr., submitting plans to Bd. Pub. Wks., repaving 34,000 sq.yd. 1st Ave. through business district brick; cost, $177,000; paving 27,300 sq.yd. Leary and Harbor Aves., concrete, $120,000 and $85,000 respectively.

Cal., Bakersfield—City plans to pave Sumner, Oak and 17th Sts. from A to O Sts., about 25 blocks, with concrete and asphalt, cement curbs and side walks, concrete gutters, wrought iron and corrugated iron culverts. F. S. Benson, city mgr.

BIDS DESIRED

Fla., Tallahassee—Until Jan. 5, by State College for Women, building 1500 lin.ft. driveway. About $12,000. J. G. Kellum, bus. mgr.

Kan., Oswego—Until Jan. 20, by E. A. Milliken, clk., La Bette Co., building Ozark Trail, 10 mi. gravel road feather edge and 10 mi. gravel on crushed rock base. About $175,000. W. J. King, co. engr.

Kan., Topeka—Until Jan. 24, by Shawnee Co., building 9.85 mi. Topeka-Lawrence Co. Rd. on Fort to Fort Highway, 18 ft. roadway, 2 course concrete, 2 in. top course on 6 in. base. J. E. Williams, Topeka, engr. Noted Dec. 26.

Cal., Glendale—Until Jan. 9, by City Clk., grading, paving, building cement curbs and sidewalks, etc., on East Bway., from Glendale Ave. to Verdugo Rd., 7400 ft. long, 2 strips of 5 in. concrete pavement, 16½ ft. wide. About $30,000 bonds will be issued for project.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Auburn**—City will pave various streets by day labor. About $15,000.

★**Fla., Ft. Pierce**—St. Lucie Co. let contract building 4 mi. roads, to D. T. McCarty and C. S. Sullivan, Ft. Pierce. About $31,000. Noted Dec. 19.

★**Ill., Lincoln**—City let contract paving various streets, to G. K. Rhodes. About $75,000.

★**Tex., Lockhart**—Caldwell Co. let contract building about 4 mi. State Highway No. 3, to W. T. Montgomery, Alamo Bank Bldg., San Antonio. About $21,750.

Wash., Seattle—City received bids regrading approaches on 10th Ave. N. E. and East 40th St., from Stewart Constr. Co., Amer. Bank Bldg., $59,882; James Constr. Co., Seattle, $68,902; Puget Sound Bridge & Dredge Co., Central Bldg., $76,222. Work involves 775 lin.ft. armor concrete, 16,350 cu.yd. excav., replacing 635 sq.yd. asphalt concrete, 295 sq.yd. 6 in. concrete base and 55,000 lb. reinforcing steel.

Cal., Porterville—City let contract grading and paving Olive, Main, Sunnyside and Putnam Aves., 5 in. concrete base, 1½ in. Warrenite wearing surface and corrugated iron culverts, to S. P. Worswick Co., I and San Diego Sts., Fresno, $107,664. Noted Dec. 5.

Railways

PROPOSED WORK

New Jersey—Raritan River R. R., Jersey City, received approval from Pub. Utilities Comn. to issue $160,000 stock; proceeds will be used to improve road and purchase equipment. T. Filskov, South Amboy, ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Maryland**—United Rys. & Electric Co., Continental Bldg., Baltimore, let contract double tracking 1 mi. line to marine yards of Bethlehem Shipbuilding Corp., Sparrows Point, to Central Constr. Co., 7th and Emerald Sts., Harrisburg, Pa. About $145,-472. Project includes earth excav., slag excav., earth fill, stone ballast and grade crossing over Pennsylvania R.R. tracks, etc.

Excavation and Dredging

PROPOSED WORK

N. Y., New York—Dredging—Comr. Docks & Ferries, Pier A, foot Battery Pl., North River, rejected only bid received Dec. 23, dredging about 20,000 cu.yd. at southern side of Pier No. 64, foot of West 24th St., North River, same being in excess of appropriation. Noted Dec. 26.

BIDS DESIRED

Mo., Kansas City — Excavation — See "Water-Works."

Cal., Blythe—Levee—Until Jan. 11, by Dirs. Palo Verde Joint Levee Dist., building with dragline dredger equipment about 4 mi. levees and drainage canals, 12 mi. north of Blythe; also 4 mi. of similar work 6 mi. south of here. Each project involves about 180,000 cu.yd. removing silt and sand. J. C. Allison, Calexico, engr.

PRICES AND CONTRACTS AWARDED

★**Pa., Wilkes-Barre**—Dredging—City received bids dredging and widening Solomon's Creek, from M. T. Malloy, Sugar Notch, $43,520; G. W. Rockwell, $44,215; B. G. Coon, $49,400. Noted Dec. 5.

★**Mo., Jefferson City** — Levee — Bd. Supervs. Capital DD., Cole Co. (Jefferson City) and Moniteau Co., (California) let contract grading, clearing and building 6½ mi. levee along Marion, involving 250,000 cu.yd. excav., to Pope Constr. Co., Jefferson City, $20¼ per cu. yd.

Cal., El Centro—Excavation—Imperial Irrigation Dist. rejected bids received Dec. 27, excavating on Demara Cut on Main Canal below Alamo Mocho in Mexico and enlarging main canal at various points and training and revetment of canal banks. Work will be done by day labor. C. K. Clarke, Calexico, ch. engr. Noted Dec. 12.

Industrial Works

PROPOSED WORK

Mass., Boston—Trustees Electric Garage, care of A. F. Bowditch, engr., 44 Bromfield St., plan to build 2 story, 90 x 91 ft. and 232 x 233 ft. brick, steel and concrete garage at 57-93 West Dedham St. About $175,000.

Mass., New Bedford—Parsons Steam Laundry Co., 270 Acushnet St., receives bids in spring for 3 story, 80 x 80 ft. brick and concrete addition to laundry, concrete flooring and concrete foundation. About $50,000.

R. I., Pawtucket—Royal Weaving Co., Central Ave., plans to build 2 story, 75 x 120 ft. brick and concrete addition to mill, concrete flooring and concrete foundation. About $54,000. D. Seabury, 12 East Ave., engr.

Conn., Durham—Merriam Mfg. Co. having plans prepared by C. S. Palmer, archt., 191 Church St., New Haven, for plant to replace one destroyed by fire. Plans include brick and timber office building, 40 x 100 ft. stamping room, 30 x 230 ft. soldering room and 45 x 110 ft. storage kiln. About $40,000. Noted Nov. 14.

Conn., Parkville (Hartford P. O.)—Jewell Belting Co., 55 Trumbull St., Hartford, plans to build 1 and 7 story, 100 x 450 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, here. About $100,000. H. Wolcott, Elmwood, engr.

Conn., Stamford—H. & H. Fdry. Co., 770 Pacific St., having plans prepared for 1 story, 100 x 400 ft. brick and concrete foundry on Pacific St. About $40,000.

N. Y., Brooklyn—Englander Spring Bed Co., 88 35th St., having plans prepared by Buchman & Kahn, archts., 56 West 45th St., New York City, building 2-story, 200 x 200 ft., steel and brick factory, rein.-con. flooring, concrete foundation, Johnson, Stuart and Varick Aves. and Long Island R. R. Noted Sept. 19.

N. Y., Brooklyn—W. S. Hawes Fdry. & Equipment Co., 44 Steuben St., having plans prepared by L. Allmendinger, archt., 20 Palmetto St., for two 1 story 50 x 100 ft. brick and steel shops, concrete foundation. About $30,000.

N. Y., New York—B. Altman & Co., 5th Ave. and 34th St., having plans prepared by F. G. Frost, archt., 19-25 West 44th St., for 6 and 9 story, 75 x 200 ft., steel and brick garage, warehouse and storage plant, rein.-con. flooring, concrete foundation, 36th and 37th Sts. between 2nd and 3rd Aves. About $250,000.

N. Y., Poughkeepsie—Poughkeepsie Cutlery Wks. plans to build 4 story, 75 x 125 ft., brick addition to factory on Cherry St. About $50,000.

N. J., Newark—E. I. du Pont de Nemours & Co., 278 Passaic St., soon receives bids building 1-story, 100 x 200 ft., steel and brick storehouse. About $55,000. C. K. Weston, Du Pont Bldg., Wilmington, Del., publicity agt. Noted Dec. 26.

N. J., Trenton—State plans to purchase building on New York Ave. and convert same into garage and warehouse; also construct new building. About $70,000 will be expended on project. F. H. Bent, Bound Brook, archt.

Md., Baltimore—M. McI. Dukehart & Co., 641 Light St., purchased site on Key Highway and plans to build 1 and 2 story, 210 x 269 ft., concrete and brick plant. Cost between $75,000 and $100,000.

Ga., Savannah—Forest City Ice Cream Co., 241 Whitaker St., plans to build plant. About $100,000. B. J. Ford, mgr.

Ga., Thomasville—Flowers Ice Cream Co. plans to build bakery here. About $35,000.

O., Cleveland—Glates Silver Co. plans to build brick and concrete warehouse and storage at 727 Bolivar Rd. About $50,000. J. Katsarsy, 303 Erie Bldg., archt.

Ind., Hartford City—Ft. Wayne Corrugated Paper Co., Murray and Barr Sts., Ft. Wayne, plans to build 2-story addition to factory here. About $75,000. Address D. S. Griffith.

Mich., Detroit—F. Stearns & Co., Jefferson Ave., had plans prepared by A. Kahn, archt., Marquette Bldg., for 8 story, 100 x 110 ft. rein.-con. and steel plant, rein.-con. flooring and concrete foundation, on Jefferson Ave. and Belvue St. Noted Dec. 19.

Ill., Chicago—Bunte Bros., 730 West Monroe St., plans to build candy factory on Franklin and Ohio Sts. About $1,500,000.

Ill., Chicago—Channel Chemical Co., 1419 Carrol Ave., plans to purchase site and build factory. About $500,000.

Ill., Chicago—B. A. Eckhart Milling Co., 1300 Carroll Ave., plans to build addition to flour mill on Carroll and Sheldon Aves. About $100,000.

Ill., Chicago—Illinois Packing Co., 3950 Normal Ave., had plans prepared by Henshein & McLaren, engrs., 1600 Old Colony Bldg., building 4 story, 85 x 145 ft. brick and timber packing plant, rein.-con. flooring and concrete foundation at 925 West 37th St. About $125,000.

Ill., Chicago—J. F. Jelke Co., 759 South Washtenaw St., plans to build new butterine factory on Washtenaw and Polk Sts., or addition to existing plant.

Ill., Chicago—Natl. Biscuit Co., 112 West Adams St., plans to build several mill construction additions to existing plants.

Wis., Cudahy—Federal Rubber Co. plans to build 6-story, 250 x 300 ft. brick and concrete factory. A. A. Frank, genl. mgr.

Wis., Racine—Maibohm Motor Co., 15th and Clark Sts., plans to rebuild 1 story, 80 x 600 ft. brick and steel factory recently destroyed by fire. About $96,000. Austin Co., Peoples Natl. Bank Bldg., Jackson, Mich., engrs.

Wis., West Allis—Sterling Wheelbarrow Co. receives bids in spring building 1 story, 125 x 300 ft. brick and steel addition to machine shop, rein.-con. flooring concrete foundation. Klug & Smith, 69 Wisconsin St., Milwaukee, archts.

Ia., Des Moines—Kurtz Hardware Co., 312 Walnut St., having plans prepared for 6 or 7 story, rein.-con. plant on 3rd St.

Ia., Ft. Dodge—Minneapolis & St. Louis R.R., Transportation Bldg., Minneapolis, Minn., plans to build a 1 and 2 story terminal plant to include machine shop, boiler plant and power house. J. H. Reinholdt, Minneapolis, Minn., ch. engr.

Ia., Sioux City—Western Terminal Elevator Co., recently incorporated, plans to build a 1,000,000 bu. elevator. About $650,-000. M. King, 634 Davidson Bldg., pres.

S. D., Sioux Falls—Standard Oil Co. plans to build 1-story, 60 x 100 ft. addition to warehouse. About $25,000. C. B. Thayer, mgr. Shlinze & Bailey, 53 West Jackson Blvd., Chicago, archts.

Industrial Works (Continued)

Tex., Ft. Worth—Gulf Well Machy. Co., 1718 Congress Ave., Houston, plans to construct plant here to manufacture oil well machinery; also build forge shop, power house, garage and office. About $225,000.

Cal., Los Angeles—Keystone Iron & Steel Wks., 973 North Main St., having plans prepared by A. C. Martin, archt., 430 Higgins Bldg., building 375 x 1100 ft., brick, rein.-con. and steel plant on Sante Fe Ave. to include machine shop, foundry, warehouses, offices, etc. About $100,000.

Cal., San Pedro—Union Ice Co., 660 South Alameda St., Los Angeles, having plans prepared by C. M. Gay & Son, engrs., 2650 Santa Fe Ave., building 1 story, 50 x 100 ft., timber building on Mesa Ave. About $30,000.

N. S., Halifax—Halifax Meal Co., Upper Water St., plans to build 1 story garage. About $38,000.

Que., Montreal—Pyrene Mfg. Co. of Canada, Ltd., 3 St. Nicholas St., having plans prepared for factory. About $25,000.

Que., Three Rivers—St. Maurice Lumber Co., 2 Notre Dame St., plans to build pulp and paper plants. About $500,000. R. F. Grant, mgr.

Ont., Merritton—Woodruff Mfg. Co. soon lets contract building 3 story brick factory. T. H. Wiley, 128 St. Paul St., St. Catharines, archt.

B. C., North Vancouver—Capilano Timber Co., 510 Hastings St. W., Vancouver, plans to build saw mills here. About $60,000. G. G. Johnson, mgr.

B. C., Prince Rupert—Mullen Contg. Co. having plans prepared for addition to shipyard and dry docks. About $500,000. J. Mullen, mgr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Lawrence**—H. Webster, Orchard St., let contract building 90 x 93 ft. concrete garage, 20 ft. high, rein.-con. flooring, concrete foundation, to E. A. Dick Co., 93 Greenwood St. About $42,000.

★**N. Y., Brooklyn**—J. A. Voorhees, 1655 Cropsey Ave., will build 1 story, 100 x 115 ft., steel and brick garage, rein.-con. flooring and concrete foundation, Bay 19th St. and Bay Ave. About $25,000. Work will be done by day labor.

★**Pa., Phila.**—See "Buildings."

★**O., Cleveland**—Domestic Coke Corp., 1208 Engineers Bldg., let contract building rein.-con., steel and brick by-products coke plant on Howard Ave., consisting of 120 ovens, also office building, to Semet-Solvay Co., Milton Rd., Syracuse, N. Y. About $3,000,000.

★**O., Cleveland**—U. S. Copper Co., Guardian Bldg., let contract building 1 and 2 story, brick, steel and rein.-con. brass and copper tube mill, rein.-con. flooring, on West 73rd St. and Wheeling & Lake Erie R. R., to Hunkin Conkey Co., 601 Century Bldg. About $75,000. Noted Dec. 5.

★**Wis., Cudahy**—Cudahy Bros. let contract building 4 story, 80 x 200 ft. rein.-con. and steel cold-storage warehouse, to W. F. Tubesing Co., 139 Chestnut St., Wauwatosa. About $150,000.

★**Wis., Racine**—Simms Fdry. Co., 10th St. and St. Paul R. R., let contract building 1 story, 50 x 85 ft., brick and steel foundry, concrete foundation, on 9th St., to L. Nelson Co., Racine. About $25,000 plus 10%.

★**Ont., Hamilton**—Zimmerman Mfg. Co., 330 Dundurn St., S., let contract building 3 story brick addition to plant, to Stewart Bros., 1 Hyde Park Ave. About $50,000. Noted Nov. 14.

★**Alta., Redcliffe**—Dauntless Mfg. Co. let contract building steel plant, to F. Zeighan, c/o Dauntless Mfg. Co. About $50,000.

Buildings

PROPOSED WORK

Mass., North Attleboro—Bank—Manufacturers' Natl. Bank plans to alter. About $60,000.

R. I., Westerly—Bank and Office—Washington Trust Co., Main St., having plans prepared by York & Sawyer, archts., 50 East 41st St., New York City, for 3 story, 60 x 104 ft. on Broad and Main Sts. About $60,000.

Conn., Bridgeport—Home—E. B. Caldwell, Jr., archt., 886 Main St., receives bids in spring building 4 story, 80 x 102 ft. brick, steel and timber, concrete flooring and concrete foundation, on Main and Thomas Sts., for Baptist Christian Union, 886 Main St. About $100,000.

Conn., Bridgeport — Hotel — Salvation Army, 82 Elm St., receives bids in spring for 5 story, on Elm near Main Sts. About $100,000.

Conn., Hartford—Market—R. N. Clark, city engr., receives bids in spring building 1 story brick and timber, concrete flooring and concrete foundation, on Main, Wells and Elm Sts. About $100,000. Noted Aug. 29 under Industrial Works.

Conn., Hartford—Prison—State Comn. will submit plans to Legislature for approval of $2,000,000 bonds to build state prison. L. W. Robinson, 42 Church St., New Haven, archt. Ford, Buck & Sheldon, 60 Prospect St., consult. engrs.

Conn., West Hartford—High School—Town receives bids in spring for 2 story, 100 x 100 ft. brick, steel and timber, rein.-con. flooring and concrete foundation, on South Main St. About $100,000. C. S. Lane, 1631 Boulevard, chn. bldg. com. Noted Sept. 12.

N. Y., Johnson City—Church—First Methodist congregation considering tentative plans for church. About $125,000.

N. Y., New York—Hospital—Knickerbocker Hospital, 128th St., had plans prepared by Helmle & Corbett, archts., 190 Montgomery St., Brooklyn, for 7 story, 150 x 200 ft. steel and brick, concrete foundation, 130th St. and Convent Ave. About $500,000.

N. Y., Rochester—Bathhouses—City soon lets contract building 1 story, 24 x 400 ft., brick and tile at Durand Eastman Park and 2 story, 40 x 80 ft., stucco, at Lake Beach in 23rd Ward. F. F. Elwood, city engr.

N. J., Atlantic City—Hotel—Brighton Realty Co. had plans prepared building 2 story concrete addition to Ambassador Hotel, Brighton Ave. About $75,000.

N. J., Boonton—School—Bd. Educ. having plans prepared by W. Potter, acht., 1 Union Sq., New York City, for 2 story, 110 x 150 ft., steel and brick, concrete foundation, on Old Boonton Rd. and Lathrop Ave. About $125,000.

N. J., New Brunswick—School—Bd. Educ. having plans prepared by A. Merchant, archt., 363 George St., for 3 story, 175 x 175 ft., brick on Livingston Ave. About $400,000. M. Bauer, clk.

N. J., Trenton—Hotel—C. F. Hildebrecht, 12 Parkside Ave., plans to build on West State St., to be 1 block in depth and 65 ft. wide. A. Swan, 506 Riverside Ave., archt.

N. J., Trenton—School—State Bd. Educ. plans to build school for deaf. I. H. Bent, Bound Brook, engr.

Pa., Westchester—Hospital—Chester Co. Hospital having sketches prepared by H. J. Harper, archt., Church Bldg., 10th and Market Sts., Wilmington, Del., for 1 and 3 story, brick and stone addition on East Marshall St. About $300,000. Address W. Potts, care of Bd. Trustees.

O., Cleveland—Bath House—City plans to build brick, steel and rein.-con. at Gordon Park. About $350,000. F. H. Betz, 604 City Hall, archt.

O., Cleveland—Club House—Cleveland Federation of Labor, 310 Prospect Ave., plans to build 10 story, rein.-con., steel, brick and stone, on East 18th St. and Prospect Ave. About $500,000. W. S. Lougee, 500 Marshall Bldg., engr., prepared plans.

O., Cleveland—Commercial—H. S. Rwitz & Co., 2112 Ontario St., plans to build 5 and 6 story, rein.-con., steel and brick, on East 40th St. About $500,000.

O., Cleveland—Market—Lakewood Market House Co., c/o W. R. Powell, archt., 702 Rose Bldg., receives bids in spring for 2 and 6 story, 78 x 381 ft., brick, steel and concrete market house, rein.-con. flooring, at 11826 Detroit Ave. About $50,000. Allen-Osborn, 700 Rose Bldg., engrs.

O., Cleveland—Office—West Superior Co., care of J. Larange, Williamson Bldg., receives bids in spring building 17 story, 44 x 82 ft., rein.-con., steel and brick on West 3rd St. and Superior Ave. About $1,000,000. Lehman & Schmidt, 210 Electric Bldg., engrs.

O., Cleveland Heights (Warrensville P. O.)—Schools—Bd. Educ. receives bids in spring building addition to schools on Noble, Fairfox and Roxboro Rds. About $125,000 each. F. C. Warner, 768 Hippodrome Annex, Cleveland, archt. and engr. Noted Apr. 11.

O., Zanesville—Y. M. C. A., Main St., plans to construct 4-story, 135 x 150 ft., brick, steel and rein.-con. building. About $250,000. A. A. Hanson, c/o owner, archt.

Ind., New Albany — Temple — Masonic Temple Assn. had plans prepared by C. E. Martindale, archt., 1200 Fletcher Trust Bldg., Indianapolis, for 4 story, 75 x [illegible] ft. About $75,000.

Mich., Detroit — Mercantile — Newcomb Endicott Co., 190-200 Woodward Ave., had plans prepared by H. S. Angell, archt., 722 Free Press Bldg., for 12 story, 60 x 110 ft., brick and rein.-con., rein.-con. flooring and concrete foundation, on Woodward and Grand River Aves.

Mich., Flint—Store—J. E. Burroughs and J. C. Zimmerman had preliminary plans prepared for building on Saginaw St. About $260,000.

Mich., Port Huron—Theater and Office—W. H. Reid plans to build brick, rein.-con. and steel, concrete foundation, on Military St. About $200,000.

Ill., Chicago—Church—Fourteenth Church of Christian Scientist, 1639 Montrose Ave., receives bids in spring building 1 story, 106 x 143 ft. steel, rein.-con. flooring, at 4450 North Paulina St. About $200,000. N. M. Dunning, 310 South Wabash Ave., archt.

Ill., Chicago — Club — Calumet Country Club, 95th St. and Cottage Grove Ave., plans to build concrete golf club.

Ill., Chicago—Office—S. W. Strauss & Co., 6 North Clark St., plans to build 12 story, 80 x 160 ft., steel on Madison and Clark Sts. About $2,500,000.

Ill., Chicago—Office and Store—A. S. Best, Wabash and Randolph Sts., plans to build 8 story, 89 x 96 ft., rein.-con. About $300,000.

Ill., Chicago—Temple—Englewood Lodge, A. F. & A. M., 6730 Wentworth Ave., plans to build 3 story, 75 x 150 ft., brick and steel. About $175,000.

Ill., Chicago—Temple—Logan Square No. 891, A. F. & A. M., 3117 Logan Blvd., plans to build 4 story, 54 x 100 ft., brick and steel on Fullerton Ave. at Logan Sq. About $100,000.

Ill., Mt. Carmel—Bank—Amer. Natl. Bank receives bids in spring building 2 story, 45 x 80 ft. About $50,000. J. M. Mitchell, secy. C. Shopbell, Furniture Bldg., Evansville, Ind., archt.

Wis., Milwaukee—Bank—Wisconsin Natl. Bank, East Water and Wisconsin Sts., plans to build. About $1,000,000. Marshall & Fox, 721 North Michigan Ave., Chicago, archts.

Wis., Racine—Bank—Racine City Bank, 1345 Washington Ave., plans to build 3 story, 40 x 90 ft. on Washington Ave. Cost, between $45,000 and $70,000.

Wis., Sheboygan — Exchange — Citizens Telephone Exch., 706 8th St., receives bids in spring building 4 story brick and concrete. W. C. Weeks, 720 Ontario Ave., archt. Noted Dec. 19.

Wis., Waukesha—High School—Bd. Educ. receives bids in spring for 2 and 3 story, 150 x 220 ft. brick, steel and rein.-con., concrete foundations, on Grand and Carroll Sts. About $230,000. Van Ryn & De Gelleke, Caswell Blk., Milwaukee, archts.

Ia., Des Moines—School—Bd. Educ. soon receives bids building 2 story, rein.-con. and brick. About $150,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., archts.

Ia., Waterloo—School—Bd. Educ. receives bids in spring building 3 story, 50 x 180 ft., rein.-con. and brick. About $150,000. J. G. Ralston, 417 Syndicate Bldg., archt. Noted Aug. 29.

Minn., Hawley—School—Bd. Educ. receives bids in spring building 2 story, 67 x 118 ft., brick and stone. About $50,000 K. T. Snyder, 933 Plymouth Bldg., archt. Noted Mar. 28.

Minn., St. Paul—School—Bd. Educ. plans to build rein.-con. and brick sub-normal school on 14th St. between Robert and Jackson Sts. About $300,000. C. A. Hausler, City Hall, city archt.

Neb., Lincoln — Church — Westminster Presbyterian congregation plans to build here. About $75,000.

S. D., Sioux Falls—Hospital—Madison Hospital Assn. receives bids in spring. Perkins & McWayne, Paulton Bldg., archts. About $75,000.

Mont., Billings—Bank and Office—Merchants Natl. Bank, Northern Bldg., having plans prepared by Weary & Alford, archts., 1007 Michigan Ave., Chicago. About $360,000. R. J. Covert, pres.

Buildings (Continued)

Mo., St. Louis—Hospital—Deaconess Hospital Assn., 4125 West Belle Pl., soon receives bids building on Oakland and Berthold Aves. Cost, between $750,000 and $1,000,000. W. Wedemeyer, Wainwright Bldg., archt. Noted Dec. 19.

Mo., St. Louis—Zoo—City plans to issue $500,000 bonds to build zoo to include bird house, bears' dens and shelter houses for other animals. Address Citizens Bond Issue Com., City Hall.

Tex., Ft. Worth—Hall—Carpenter's Union plans to build 3 story, brick, at Jones and 3rd Sts. T. F. Bays, 3301 Ave. N, mgr. About $80,000.

Tex., Ft. Worth—Office—W. Capps plans to build 5-story addition at 5th and Throckmorton Sts. About $65,000.

Tex., Paris—Church—First Methodist congregation purchased site on Lamar Ave. and Clarksville St. and plans to build. About $100,000.

Idaho, Nampa — Hospital — Sisters of Mercy had plans prepared by Tourtellotte & Hummel, archts., Overland Bldg., Boise, for 40 x 152 ft. brick and concrete, concrete foundation. About $50,000.

Ariz., Eagar—Church—Latterday Saints congregation having plans prepared by S. A. Shreeve, archt., Col. Hudson Bldg., Ogden, Utah, for church. About $75,000.

Ariz., Nogales—Market—City plans to build. About $50,000.

Wash., Seattle—Hospital—J. W. Wilkins, M. D., Cobb Bldg., plans to build 3 story, 72 x 34 ft., brick, with wing 34 x 34 ft., on 16th Ave. and John St. About $60,000. J. R. Nevins, Hoge Bldg., archt.

Cal., Los Angeles—Office—See "Industrial Works."

BIDS DESIRED

N. Y., Brooklyn—Hospital—Until Jan. 4, by Carleson & Wiseman, archts., 226 Henry St., building 4 story, 75 x 100 ft., steel and brick, concrete foundation, Bushwick Ave. and Cedar St., for Bushwick Maternity Hospital, 761 Bushwick Ave. About $70,000.

N. Y., Brooklyn—Theatre—Until Jan. 6, by M. Montrose & Sons, archts., 533 Nostrand Ave., building 1 story, 120 x 171 ft., steel and brick, concrete foundation, Fulton St. and Howard Ave., for H. Weingarten, 1901 Bway. About $70,000.

Tex., College Station—Administration, etc.,—Until Jan. 11, by Bd. Dirs. Agricultural & Mechanical College of Texas, building 60 x 100 ft. administration building and 65 x 130 ft. physics building, rein.-con. and brick, rein.-con. flooring. About $75,000 and $60,000, respectively. W. B. Bizzell, pres. Noted Nov. 21.

Ariz., Phœnix—School—Until Jan. 30, by Trustees Phœnix School Dist., building 2 story, 80 x 120 ft., brick, concrete foundation. About $150,000. Marsh, Howard & Wallingford, 211 Bway. Central Bldg., Los Angeles, Cal., archts.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Hartford**—Office—Phœnix Mutual Insurance Co., 49 Pearl St., let contract building 6 story, 135 x 150 ft. brick and concrete, concrete foundation, on Elm St., to M. Eidlitz & Son, 30 East 42nd St., New York City. About $500,000. Noted Dec. 12.

★**N. Y., New York**—Church—Seventh Church of Christ Scientist, 606 West 110th St., let contract building 1 story, 67 x 94 ft., stone and marble, at 516-22 West 112th St., to Burke Bros. Constr. Co., 62 West 45th St. About $50,000. Noted Dec. 19.

Pa., Phila.—Fire and Police Stations—City received bids building 1 and 2 story, brick and stone fire and police stations, power house and stables, at 24th and Ritter Sts., from F. G. Stewart, 1619 Sansom St., $304,245, and E. Fay & Son, 2 South Mole St., $307,000. P. H. Johnson, Land Title Bldg., archt.

★**S. C., Rock Hill**—Dormitory, etc.—Winthrop College plans to build 3 story by day labor. About $100,000. Noted Oct. 17.

★**Fla., Tampa**—Temple—Latin Labor Unions plan to build 3 story, 50 x 95 ft. with 95 x 100 ft. adjoining structure. Work will be done by day labor under supervision of Labor Temple Assn. Bonfey & Elliott, Petteway Bldg., archts

★**O., Akron** — Office — Wellman, Seaver, Morgan Co., 7004 Central Ave., Cleveland, let contract building 4-story, 40 x 60 ft., brick, steel and rein.-con., to Hunkin-Conkey Co., 601 Century Bldg., Cleveland. About $60,000. Noted Sept. 26.

★**O., Cleveland**—Salesroom—J. H. Donahey, Plain Dealer Bldg., let contract building 1-story, 54 x 179 ft., brick and timber, rein.-con. flooring, at 2002 Euclid Ave., to E. Paulson Co., 429 Erie Bldg. About $50,000.

Federal Government Work

PROPOSED WORK

Mass., Boston—Steel Stock and Storage Shed—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3737.

Mass., Chelsea—Kitchen Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install; Spec. 3730. About $6500.

Conn., Stamford—Channel and Harbor Improvements, etc.—River & Harbor Com., Wash., D. C., plans to improve channel and harbor and build new breakwater. About $183,000.

N. Y., Fire Island—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build. Bids will be received at local Navy Yard; Spec. 3728.

N. Y., Fort Lafayette—Lighting System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install here; Spec. 3729. Bids will be received at local Navy Yard.

N. J., Trenton—Deepening Channel—House Rivers & Harbors Com. of Congress appropriated about $2,000,000 for dredging and deepening channel in Delaware River between here and Philadelphia, Pa.

D. C. Bellevue—Fuse and Primer House—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3737.

Va., Hampton Roads—Extending Pneumatic Tube System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids Dec. 23, building at Naval Operating Base; Spec. 3658. About $30,000. Noted Dec. 12.

Va., Quantico—Extension to Garage—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids; Spec. 3672. About $10,425. Noted Dec. 5.

Ga., Brunswick—Artesian Well—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3732.

Cal., San Diego — Barracks — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build 7 barrack buildings at Marine Corps Base; Spec. 3733.

BIDS DESIRED

Conn., New London—Completion of Buildings—Until Jan. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., completing building for nets; Spec. 3479. About $9000.

Md., Indianhead—Houses—Until Jan. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building type B apartment houses; Spec. 3696. About $60,000; $10 deposit required for plans and spec. Noted Dec. 5.

D. C., Wash.—Bridge—Until Jan. 7, by Dist. Comrs., Dist. Bldg., building bridge on Concord Ave. between 3rd and 4th Sts., N. W.

D. C., Wash.—Hygienic Laboratory—Until Jan. 14, by J. A. Wetmore, superv. archt., treas. dept., Wash., building laboratory and installing equipment in same. Noted Nov. 21.

Va., Norfolk—Kitchen and Diet Equipment—Until Jan. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3622. About $25,000. Noted Nov. 7.

Va, Petersburg—Altering Post Office and Customhouse—Until Jan 13, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C.

Va, Salem—Post Office—Until Jan. 23, by J. A. Wetmore, superv. archt. treas. dept., Wash., D. C., building here

Va., Yorktown—Administration Building—Until Jan. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3608. About $57,000. Noted Oct. 31.

Fla., Key West—Dredging—Until Jan. 28, by U. S. Eng. Office, Jacksonville, dredging in Key West Harbor; advertised in this issue. Noted Dec. 26.

Ark., Russellville—Post Office—Until Jan. 23, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building here; advertised in this issue.

Tex., North Ft. Worth—Wells and Pumps—Until Jan. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building two 10 in. wells and installing pumping machinery; Spec. 3577. About $35,000. Noted Dec. 5.

Cal., Mare Island—(Vallejo P. O.)—Power House, etc.—Until Jan. 8, by Mare Island Navy Yard, building power house, cottage and sewer ejector at Beach Radio Sta.; Spec. 3741. About $50,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass, Chatham—Boiler House, Heating and Draining Systems, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, building boiler house, pumping house and installing heating, drainage and gasoline systems.

(1) net price and time following portions of the work; boiler house, electrical work in boiler house, and all work described under heating, except that heating in pump house and extension of heating lines from pump house to 5 ft. outside of building is not included in (1).

(1a) net price and time for portions of work described in (1) complete, except that roof of boiler house is to be covered with asbestos ready-to-lay roofing in place of asbestos shingles.

(1b) net price and time to be added to or deducted from (1) if foundation walls of boiler house are made of concrete (similar to footings) from footings to 3 in. above floor, in lieu of brick as shown.

(2) net price and time for portions of work specified under drainage, complete.

(3) net price and time for following portions of work complete, pump house, electrical work in pump house, heating in pump house and extension of heating lines from pump house to 5 ft. outside of building, and all work described under gasoline storage and supply system. Bidders may submit proposals upon any or all of above items, from

Coleman Bros., 1 Marginal St., Chelsea, (1) $33,250 (30 days); (1a) $33,000; (1b) deduct $50; (2) $2525; (3) $9300.

F. A. Dayes & Sons, 24 Pearl St., Provincetown, (3) $11,584.60 (60 days).

C. Meads & Co., 38 Park Row, New York City, (1), (2) and (3) $52,340.

Westcott & Mapes, 207 Orange St., New Haven, Conn., (1) $37,065 (45 days); (1a) deduct $232; (1b) add $265; (2) $6205 (60 days); (3) $14,452 (60 days). Noted Dec. 12.

★**N. Y., Bensonhurst**—Repairing Marine Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to A. M. Hazell, 26 Cortland St., New York City, $17,873. Noted Nov. 14.

★**N. Y., Montauk**—Completion of Administration Building, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract completing administration building, 2 blower houses, dirigible and fabric buildings under contract No. 2975, to Marble Arch Co., Bway. and 216th St., New York City, $14,000 (45 days). Noted Dec. 12.

N. Y., Rockaway—Tanks—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, installing gasoline piping tanks, etc., at Naval Air Sta., work complete, from C. Mead & Co., 38 Park Row, New York City, (1) $21,120; C. E. Eng. Co., 417 Canal St., New York City, (1) $24,100 (120 days); Austin Heating Corp., 105 Chambers St., New York City, (1) $22,355 (120 days), (2) $23,375 (90 days). Noted Dec. 12.

★**N. Y., Wards Island**—Kitchen and Diet Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to S. B. Sexton Stove & Mfg. Co., 500 West Conway St., Baltimore, Md., $22,986 (85 days). Noted Dec. 19.

Pa., Phila.—Kitchen and Mess Hall Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, installing in Naval Hospital, League Island, work complete, from S. B. Sexton Stove & Mfg. Co., 500 West Conway St., Baltimore, Md., $19,947 (60 days); Rod Iron Range Co., 6 Portland St., Boston, Mass., $21,548 (60 days); Duparquet, Huot & Moneuse, 108 West 22nd St., New York City, $26,514 (60 days). Noted Dec. 12.

Federal Government Work (Continued)

Pa., Phila.—Water Supply, Sewer and Drainage System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building at Grays Ferry Rd.,

(1) net price and time for work complete, not including water supply, sewerage and drainage systems to recreation building, garage and greenhouse,

(2) amount and time to be added to net price and time under (1) for water supply, sewerage and drainage systems from points 5 ft. outside of building walls of recreation building to various systems required,

(3) amount and time to be added to net price and time under (1) for water supply, sewerage and drainage system from points 5 ft. outside of building walls of garage to various systems required,

(4) amount and time to be added to net price and time under (1) for water supply, sewerage and drainage systems from points 5 ft. outside of building walls of greenhouse to various systems required, from

B. Pizzinot, Pitman, N. J., (1) $30,500, (2) $500, (3) $2000, (4) $1500 (125 days).

E. C. Fish Co., 407 Real Estate Trust Bldg., (1) $32,650 **(70 days), (2) $605 (5 days),** (3) $480 (5 days), (4) $735 (5 days).

W. Steele & Sons, 1600 Arch St., **(1)** $35,472 (75 days), (2) $1430, (3) $3728, **(4) $2249.** Noted Nov. 28.

Md., Indianhead—Annex to Dispensary—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, building at Naval Proving Ground, work complete, from De Kimpe Constr. Co., Dispatch Bldg., Union Hill, N. J., $25,800 (150 days). Noted Dec. 12.

★D. C., Wash—Grading—Dept. Pub. Bldgs. & Grounds let contract grading on and about site of Arlington Memorial Amphitheatre, Arlington Natl. Cemetery, to G. B. Mullin & Co., 1751 A St., S. E., $18,000.

Va., Alexandria—Pier and Bulkhead—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, building at Naval Assembling Plant,

(1) net price and time for work complete,

(2) net price and time for work complete as required in (1) but omitting sheet pile bulkhead and removal of old pier piles and timbers. Round piles on each side of pier, to which the bulkhead wale timbers are secured shall not be included in this item.

(3) net price and time for work complete, as required in (1) but omitting sheet pile bulkhead. Round piles on each side of pier, to which bulkhead wale timbers are secured shall not be included in this item.

(4) net price and time for work complete, as required in (1) but omitting removal of old pier piles and timbers.

(5) net price and time for sheet pile bulkhead complete. This item shall include round piles on each side of pier, to which bulkhead wale timbers are secured.

(6) unit price added or deducted from (1-5), inclusive, for each pile (round) in excess of or less than number required by drawing based on length of 50 ft. in place,

(7) unit price added or deducted from (1-6), inclusive, for each linear foot of pile (round) in place in excess of or less than the length specified,

(8) unit price added or deducted from (1, 4 and 5) for each 1000 ft. B. M. sheet piling in place, in excess of or less than quantity required as per length specified in Paragraph 39,

(9) net price and time for removing all old pier piles and timbers mentioned in Paragraph 48, from

McLean Constr. Co., Fidelity Bldg., Baltimore, Md., (1) $36,711 (90 days), (2) $27,750, (3) $28,750, (4) $36,000, (5) $10,500, (6) add or deduct $30, (7) add $0.70, (8) add or deduct $125, (9) $2000.

McHard & Barton Co., 171 Madison Ave., New York City, (1) $37,600 (100 days), (2) $29,900 (90 days), (3) $31,100 (90 days), (4) $36,600 (100 days), (6) $22, (7) $0.30, (8) $100.

Hyde & Baxter Co., 711 13th St. Wash., D. C., (1) $38,852, (100 days), (2) $29,152 (80 days), (3) $31,360 (90 days), (4) $36,450 (90 days), (5) $10,080, (6) add $35, deduct $20, (7) add or deduct $0.70, $0.40, (8) add $100 or deduct $60, (9) $4000 (30 days). Noted Dec. 5.

Va., Yorktown—Wood Pier and Approach—Bureau Yards & Docks, Navy Dept., Wash., D. C., receives bids Dec. 23, building at Navy Mine Depot.

(1) net price and time for work complete,

(2) net price and time added or deducted from net price and time for work complete as required in (1) for each 60 ft. of single track trestle approach more or less than length of approach specified,

(3) unit price added or deducted from items (1) and (2) for each pile in excess of or less than number required by drawings and specifications, and based on the length specified,

(4) unit price added or deducted from (1), (2) and (3) for each linear foot of pile in excess of or less than specified length, from

McLean Contg. Co., 1412 Fidelity Bldg., Baltimore, Md., (1) $309,975 (135 days), (2) add $2400, deduct $2400, (4) add $1.95, deduct $0.30.

Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., (1) $318,745 (150 days); (2) add $3280, deduct $3000; (3) add $125, deduct $90; (4) add $1.40, deduct $1. Noted Dec. 12.

W. Va., South Charleston—Officers' Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, building 4 officers' quarters at Naval Ordnance Plant,

(1) net price and time for four buildings (three type B, and one of Type A) (work complete),

(2) net price and time for each additional building, type A,

(3) net price and time for each additional building type B,

(4) net price and time for three buildings of type B, complete, from

Wills Egelhoff Co., 101 Park Ave., New York City, (1) $72,855 (120 days), (2) $17,220 (30 days), (3) $18,560 (30 days), (4) $55,680 (120 days).

H. F. Friestedt, 327 South La Salle St., Chicago, (1) $87,341 (120 days), (2) $23,125, (3) $23,705, (4) $67,575.

★W. Va., South Charleston—Structural Steel—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Air Sta., to Amer. Bridge Co., Wilkins Bldg., Wash., D. C., $2,484,000. Noted Dec. 12.

S. C., Paris Island—Extension to Heating System and Power Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building at Marine Barracks,

(1) net price and time for work complete,

(2) net price and time for work complete at main station,

(3) net price and time for work complete at training camp, from

Baker, Dunbar Allen Co., Stock Exch. Bldg., Phila., (1) $136,400 (120 days), (2) $93,600 (120 days), (3) $44,700 (100 days).

Premier Eng. Co., 56 West 45th St., New York, (1) $140,000 (125 days), (2) $97,000 (125 days), (3) $43,000 (120 days).

Thompson Bros., 123 North 15th St., Phila., (1) $141,564 (125 days), (2) $100,000 (125 days), (3) $44,796 (135 days). Noted Dec. 12.

Fla., Miami—Septic Tank—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 23, building at Naval Air Sta., work complete, from Ward & Pride, 307 Bisbee Bldg., Jacksonville, $12,107 (80 days); St. John Constr. Co., Townley Bldg., $12,466 (100 days); A. Blair, 11 South Lawrence St., Montgomery, Ala., $13,141 (115 days). Noted Dec. 5.

★Ala., Mobile—Repairing Wharf—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract repairing wharf at U. S. Quarantine Sta., to M. T. Judge, c/o Peoples Bank of Mobile, $18,366.

Ill., Chicago—Repairing and Re-covering Dome—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids repairing and re-covering dome of post office here, from W. J. Scown Bldg. Co., 36 West Randolph St., $16,800; Frandsen Constr. Co., 64 West Randolph St., $19,190; Chicago Fire Window & Cornice Co., 440 North Halstead St., $19,998.

★Ill., Great Lakes—Psychiatric Ward—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building in Emergency Hospital, to Hanson Bros. Co., 127 North Dearborn St., Chicago, $11,846 (45 days). Noted Dec.12.

★Cal., San Francisco—Reservoir—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building 2,000,000 gal. reinf. con. reservoir at Naval Training Sta., Goat Island, to Schultz Constr. Co., 46 Kearney St., $44,842 (100 days). Noted Dec. 5.

Miscellaneous

PROPOSED WORK

Park—Jersey City, N. J.—City Comn. plans to purchase additional land in front of City Hospital and will convert same into park. About $131,000 appropriated for project.

Sea Wall—Tampa, Fla.—City soon receives bids building 600 ft. seawall at De Soto Park. R. D. Martin, city engr.

Approach—Detroit, Mich.—Dept. Parks & Blvds., 822 Farwell Bldg., having plans and estimates made for improving and adorning approach to Michigan Central Sta. About $83,000. C. F. Hubbell, city engr.

Docks—Orange, Tex.—City plans election to vote on $150,000 bonds to build addition to docks.

Flume, etc.—Monti, Utah—Town Council plans to enlarge present flume and distribution lines and build hydroelectric plant. About $10,000.

Bulkheads—Warrenton, Ore.—City soon lets contract building bulkheads on Skipanon Waterway. Work includes 6800 lin. ft. 2 pile, and 4350 lin.ft. 3 pile bulkheads, and 135,000 lin.ft. piling, and 48,000 lb. iron. Baar & Cunningham, Spaulding Bldg., Portland, engrs.

Dry Docks—Prince Rupert, B. C.—See "Industrial Works."

BIDS DESIRED

Structural Steel—New York, N. Y.—Until Jan. 9, by Pub. Serv. Comn., 49 Lafayette St., for supplying and erecting structural steel for Sect. 6, Route 8, part of 14th St.-Eastern Rapid Transit R. R.

Gantry Crane — Seattle, Wash.—Until Feb. 19, by Port Comn. of Port of Seattle, Bell Street Warehouse, Bell St., furnishing and installing gantry crane. Smith's Cove Impvt., Pier B. T. S. Lippy, secy.; advertised in this issue.

Sheet Steel, Rivets, etc.—Los Angeles, Cal.—Until Jan. 24, by J. P. Vroman, secy. dept. pub. wks., 645 South Olive St., furnishing sheet steel, rivets and pipe sections for penstock for power house No. 2, San Francisquito Canyon. About $75,000. Noted Dec. 5.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Fill—New Bedford, Mass.—Phila. & Reading Coal & Iron Co., Walnut St., let contract filling in slip for additional coal pockets, to F. C. Taylor, 130 Middle St., Fairhaven. About $18,000.

★Auto Eductor, Steam Roller, etc.—Brooklyn, N. Y.—E. Riegelmann, pres. Brooklyn Boro., let contract furnishing and delivering auto eductor, for Bureau of Sewers, to Otterson Auto Eductor Co., 817 Fairbanks Bldg., Springfield, O., $8000; 1 steam asphalt roller, to Good Roads Machy. Co., 50 Church St., New York City, $2580; 6 back dumping dirt trucks, to Shadbolt Mfg. Co., 68 Flushing Ave., $3900; 2 tar melting and gravel heating trucks, to C. Hvass & Co., Inc., 511 East 18th St., New York City, $1180. Noted Dec. 26.

★Semi Trailers—Brooklyn, N. Y.—E. Riegelmann, pres. Brooklyn Boro., let contract furnishing and delivering 4 semi trailers for Bureau of Highways, to Shadbolt Mfg. Co., 68 Flushing Ave., $5000. Noted Dec. 26.

Blanket—New York, N. Y.—Pub. Serv. Comn., 49 Lafayette St., received bids building concrete and rip rap stone blanket over portion of 7th-Lexington Ave. Rapid Transit R.R. at old slip, Route No. 28, from Morris & Cumings Dredging Co., 17 State St., $254,950; New Jersey Shipbuilding & Dredging Co., foot of East 28th St., Bayonne, N. J., $329,500; Phœnix Constr. Co., 41 Park Row, $367,281. Noted Dec. 19.

★Steam Roller—New York, N. Y.—H. Bruckner, pres. Bronx Boro., let contract furnishing and delivering one 5-ton steam asphalt roller, to Good Roads Machy. Co., 50 Church St., $3000. Noted Dec. 26.

Station Finish—Phila., Pa.—Dept. of City Transit, 754 Bourse Bldg., received bids furnishing and placing steel frame work and railings, concrete floors and parapets, side enclosures, etc., for 4 station platforms, with connecting passages between platforms and station buildings of Frankford Elevated Ry., at Orthodox-Margaret Sts. and Ruan-Church Sts., together with 1 over passage bridge and stairs, from W. Steele & Sons, 16th and Arch Sts., $98,950; F. J. Boas, 201 North Broad St., $122,500; Keystone State Constr. Co., Franklin Bank Bldg., $138,200. Noted Dec. 5.

★Piers — Three Rivers, Que. — Three Rivers Shipyards, Ltd., 570 Notre Dame St., let contract building three piers, to Arcand & Penault, Three Rivers. About $15,000. Noted Dec. 19.